AD-A259 641

AUTOMATED LOGISTICS SUPPORT ANALYSIS TOOL
Version 1.0

EXECUTIVE
USER'S MANUAL

APJ 966-600

APJ

MILITARY & SCIENTIFIC
RESEARCH

AMERICAN POWER JET CO. RIDGEFIELD N.J.

93 1 22 030

93-01142

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION	1b. RESTRICTIVE MARKINGS
UNCLASSIFIED	

2a. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION/AVAILABILITY OF REPORT
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE	UNLIMITED

4. PERFORMING ORGANIZATION REPORT NUMBER(S)	5. MONITORING ORGANIZATION REPORT NUMBER(S)

6a. NAME OF PERFORMING ORGANIZATION	6b. OFFICE SYMBOL (If applicable)	7a. NAME OF MONITORING ORGANIZATION
AMCCOM, Army	AMSMC-MAE-EA	

6c. ADDRESS (City, State, and ZIP Code)	7b. ADDRESS (City, State, and ZIP Code)
Rock Island Arsenal Rock Island, IL 61299-6000	

8a. NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER

8c. ADDRESS (City, State, and ZIP Code)	10. SOURCE OF FUNDING NUMBERS			
	PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO.

11. TITLE (Include Security Classification)   Executive User's Manual, (APJ 966-600).

12. PERSONAL AUTHOR(S)		
DULCOS, RONALD	SHEPHERD, NED	kmk

13a. TYPE OF REPORT	13b. TIME COVERED	14. DATE OF REPORT (Year, Month, Day)	15. PAGE COUNT
FINAL	FROM _____ TO _____	May 1991	109

16. SUPPLEMENTARY NOTATION

17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
FIELD	GROUP	SUB-GROUP	EXECUTIVE MODULE, AUTOMATED LOGISTICS SUPPORT
			ANALYSIS TOOLS, ALSAT, LOGISTICS SUPPORT ANALYSIS
			TASKS AND SUBTASKS, WEAPON SYSTEM LIFE CYCLE over

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This Executive User's Manual is the complete documentation package for the Executive Module of the Automated Logistic Support Analysis Tools (ALSAT). This is one of four modules that comprise the prototype Version 1.0 of ALSAT. The purpose of the prototype version is to demonstrate how the integrated Executive shell can adequately manage and control several LSA Tasks and Subtasks. It defines, organizes, tracks, models and reports on procedures that are used to develop supportability concepts. This Executive User's Manual describes the installation of the software and the operation of ALSAT. However, each LSA Task (the remaining three modules) has its own reference manual. The user is advised to use the individual LSA Manuals in conjunction with this Executive Manual when performing any of the LSA Tasks or Subtask operations.

20. DISTRIBUTION/AVAILABILITY OF ABSTRACT	21. ABSTRACT SECURITY CLASSIFICATION
☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS	UNCLASSIFIED

22a. NAME OF RESPONSIBLE INDIVIDUAL	22b. TELEPHONE (Include Area Code)	22c. OFFICE SYMBOL
NED SHEPHERD	(309) 782-2479	AMSMC-MAE-EA

DD Form 1473, JUN 86   Previous editions are obsolete.   SECURITY CLASSIFICATION OF THIS PAGE

18. STAGE INDEPENDENT, LIFE CYCLE, STAGE, DEFINES, ORGANIZES, TRACKS, MODELS AND REPROTS LSA PROCEDURES, WEAPON SYSTEM SUPPORT CONCEPT, STRUCTURED METHODOLOGIES, LOGISTIC SUPPORT ANALYSIS, ON-LINE HELP, EXECUTIVE USER'S MANUAL.

AUTOMATED LOGISTICS SUPPORT ANALYSIS TOOL
Version 1.0

EXECUTIVE
USER'S MANUAL

DTIC QUALITY INSPECTED 8

under

CONTRACT DAAA21-86-D-0025

for

HQ US AMCCOM
INTEGRATED LOGISTIC SUPPORT OFFICE
AMSMC-LSP
ROCK ISLAND, IL

by

AMERICAN POWER JET COMPANY

RIDGEFIELD, NJ   **ARLINGTON, VA**

WILLIAMSBURG, VA   **ST. LOUIS, MO**

May 1991

PLEASE READ THIS

The Automated Logistics Support Analysis Tool (ALSAT) software consists of an Executive Module and a set of LSA Task/Subtask Modules.

To operate ALSAT, both the Executive Module and the Task/Subtask Modules you wish to use must be installed.

There is a separate User's Manual for each Task/Subtask Module. To effectively utilize ALSAT, obtain both the Executive Module User's Manual and the applicable Task/Subtask User's Manuals.

FOREWORD

This manual is the complete user documentation package for the Executive Module of the **Automated Logistics Support Analysis Tools (ALSAT)**.

ALSAT provides a computer assisted guide to logisticians in the performance of Logistics Support Analysis Tasks and Subtasks as defined in MIL-STD-1388-1A. This automated LSA System is being developed by the American Power Jet (APJ) Company, under contract to HQs AMCCOM.

ALSAT is weapon system and life cycle stage independent; it is designed to be tailored to a specific weapon system, life cycle stage, or other constraint. It defines, organizes, tracks, models and reports on the LSA procedures that define a weapon system support concept. It provides structured and comprehensive techniques to perform LSA, and saves time in organizing, and reporting the information developed.

Structured methodologies were used to develop the software logic in accordance with MIL-STD-1388-1A, "Logistic Support Analysis". APJ's task performance has been closely coordinated with AMCCOM and other materiel agencies. Their experience has been captured in APJ's logic through continued coordination and review at the working level.

ALSAT simplifies the analyst's task. The user is taken through a series of data input screens that when completed produce meaningful LSA Task results. Time is spent actually doing the work instead of determining what must be done next. Help is available at every step to guide the analyst through the task.

Version 1.0 of ALSAT was developed as a prototype to demonstrate the operation of several LSA Tasks and Subtasks through an Executive module. It comprises an Executive and three LSA task/subtask modules. The individual LSA Tasks and Subtasks are not uniform in appearance because they differ in functional requirements.

This manual provides necessary guidance for logisticians to use the ALSAT Executive. The two forms of guidance (User manual and extensive On-line help), enable an uninitiated user to quickly master the software and apply it to LSA task performance.

Each LSA task has its own reference manual and is self contained. The user is advised to use the individual LSA

manuals in conjunction with this manual when performing any of the LSA Tasks or Subtasks.

This work was performed by a task team for APJ: George Chernowitz, Scott Lerman, Siddhartha Chaudhuri, Kayin Tong and Jack Tauber. The team was ably supported in editing and production by Barbara Boren and Denise Montanez.

The support of Messrs. Ned A. Shepherd and Ron Duclos of AMCCOM, AMSMC-LSP is gratefully acknowledged for their assistance in many regards.

ALSAT LSA software is available through HQ AMCCOM, AMSMC-LSP to Program Managers, ILS functional area personnel and Logistic Support Analysts.

Comments and recommendations on this version are welcome and should be addressed to:

<div align="center">

George Chernowitz
AMERICAN POWER JET COMPANY
705 Grand Avenue
Ridgefield, New Jersey 07657
Phone: (201) 945-8203

</div>

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

LIST OF APPENDICES

CHAPTER 1
INTRODUCTION

1.1 GENERAL

REQUIRE-
MENT

1.1.1   The Department of the Army has a requirement to provide definitive guidance to accomplishing LSA Tasks specified in MIL–STD–1388–1A, "Logistic Support Analysis". Headquarters AMCCOM has initiated action to structure LSA Task performance by defining the procedures necessary to do an analysis, thereby producing the desired results.

1.1.2   The **Automated Logistics Support Analysis Tool (ALSAT)** addresses that initiative by laying out the approach using current U.S. Army policies, procedures and techniques. It is part of a coordinated HQ, US Army Armament, Munitions and Chemical Command (AMCCOM) and American Power Jet Company effort to provide a uniform and reproducible approach to the logistic tasks addressed by MIL–STD–1388–1A, "Logistic Support Analysis", and Army Regulation 700–127, "Integrated Logistic Support".

PROTOTYPE
SOFTWARE

1.1.3   The software is a prototype version which demonstrates the possibility of automating the tasks involved in developing effective Logistics Support during the various phases of a weapon systems life cycle. The prototype version represents how an integrated Executive shell can adequately manage and control the numerous LSA Tasks and Subtasks.

1.1.4   ALSAT simplifies the analyst's task. The user is taken through a series of data input screens that when completed produce meaningful LSA Task results. More time is spent actually doing the work instead of determining what must be done next. Help is available at every step to guide the analyst through the task.

1.1.5   **The software has been designed such that the user need input data only once. If the data is**

subsequently required within the module, it is retrieved and used at that particular point. Numerous checks have been introduced within the software to ensure data integrity. While every effort has been made to provide an error free software, it must be recognized that the prototype primarily demonstrates a concept and should be viewed as such.

1.1.6   This prototype user's manual is intended for use with Version 1.0 of the Logistic Support Analysis (LSA) software. It is designed to provide guidance in the use of the LSA software so that the analysis is performed in accordance with the specifications laid out in MIL-STD-1388-1A.

1.1.7   The user is guided through the software with suitable prompts. The software also incorporates a two part on-line **HELP** function which provides the step-by-step logistic procedures involved in the completion of the task and guidance through the software.

1.1.8   The manual consists of four volumes:

   Executive Manual (APJ Report 966-600.   This report)
   Early LSA Strategy (APJ Report 966-601)
   Risk Analysis (APJ Report 966-604)
   Battle Damage Assessment and Repair (APJ Report 966-621)

1.1.9   The layout of the manual differs in each of the volumes to suit the requirements of the individual LSA modules.

1.2 SCOPE

SCOPE

1.2.1   This module controls the entire operations of the **Automated Logistics Support Analysis** Tool. It provides logisticians with a tool to closely follow standardized methodology to be adopted in conducting Logistics Support Analysis **Tasks** and **Subtasks**.

1.2.2   It defines, organizes, tracks, models and reports on the procedures that are used to define a weapon system support concept. The objective ALSAT is to reduce the time spent by logisticians in organizing, collating and formatting information developed in the analysis process while providing structured and comprehensive techniques to do their job.

NOTE

This user's manual describes the operation of the ALSAT Executive. It must be used in conjunction with the manuals for the individual LSA Tasks or Subtasks.

1.2.3   The manual starts with an overview of the LSA software and a brief description of the **Management Module**. Chapter 2 provides the user with an **Installation Procedure** for the LSA software. Chapters 3 through 5 give the user a step-by-step walk through the operation of the Management module adequately supplemented by graphic screen displays. Appendices at the end of the volume provide the user with the System Requirements, list of reference documents and required files for use with the software, and sample reports from the management module.

1.3   OVERVIEW OF LSA SOFTWARE

1.3.1   The software provides a computer assisted guide for working level personnel in performing Logistics Support Analysis Tasks and Subtasks as identified in MIL-STD-1388-1A.   It affords assistance in identifying the optimal solutions to operation and support decisions addressed in the Logistics Support Analysis process during the

various life cycle phases of an Equipment or Weapon System.

LSA
OVERVIEW

1.3.2   Every Task or Subtask may not be pertinent. It is suggested that the user review the complete list of Tasks and Subtasks to determine those applicable to the life cycle phase, weapon system and type of analysis to be performed, and indicate it in the Management module of the Executive, where the appropriate tailoring can be undertaken.

1.3.3   The software takes the user through a series of procedures required to complete an analysis. The procedures involve the completion of a series of data input screens which require knowledge of the system design. The software contains functionality for documenting the rationale of the decision.

1.3.4   To assist the user in gathering data, completing the data fields and making decisions, an extensive HELP system has been built into the software. The **Process Methodology Help** presents procedures for gathering and analyzing data. **Software Guidance Help** steers the user through the program.

1.3.5   The software also has an electronic note pad which may be used to record special considerations and outline areas which are critical to the issue at hand. In addition, a Summary and Status Submodule forms an integral part of each LSA module. This Submodule allows a manager to maintain an up-to-date record of the Tasks and Subtasks status.

1.3.6   The LSA software generates reports which broadly cover three areas - Status, Summary and Analysis results. The individual LSA modules generate reports specific to the Task or Subtask, whereas the Management module generates reports that provide the Program Manager with tools for effective control of the overall logistic support program.

1.4 MANAGEMENT MODULE

MANAGE-
MENT
MODULE

1.4.1   The purpose of the **Management Module** is to allow the user to maintain the LSA environment. It incorporates three Submodules:

> Utilities
> Housekeeping
> Management Reports

UTILITIES

1.4.2   **Utilities Submodule** – This Submodule allows the user to recover corrupted files and pack text files (*.DBT). This Submodule also allows the user to select/modify the specifications of the printer.

HOUSE-
KEEPING

1.4.3   **Housekeeping Submodule** – This Submodule allows the user to set up a schedule for the performance of Tasks and Subtasks, modify user details and update equipment details.

MANAGE-
MENT
REPORTS

1.4.4   **Management Reports** – This Submodule generates reports for the Program Manager and facilitates effective control and monitoring of project.

1.5 LSA LOGIC AND ORGANIZATION

1.5.1   The software automates the assessment of three LSA Tasks/Subtasks and follows the requirements of MIL-STD-1388-1A.

LSA LOGIC

1.5.2   The LSA software was developed using the state-of-the-art Computer Aided Software Engineering (CASE) methodologies. The basis for the development process was Data Flow Diagrams and Structured Design submitted in APJ Reports.

1.5.3   The APJ reports provide the detailed Structured Analysis and Design of the LSA Tasks/Subtasks. The user may refer to the appropriate APJ Reports to get an overview of the logic and approach for doing an LSA Task or Subtask.

1.5.4   Figure 1-1 explains the LSA Executive Architecture. The user must first log into the software and select the equipment to be worked on. This takes into account the fact that the LSA user is typically a single individual, working on a single weapon system and quite possibly on a limited number of areas of logistics analysis.

1.5.5   The software architecture supports this view and allows the user to perform analysis on a number of LSA Tasks and Subtasks in one sitting but on only one weapon system. Should analysis be required on multiple equipments, the user would have to reenter the software for each equipment.

1.5.6   Figure 1-2 presents the LSA Task/Subtask logic and is indicative of the decision processes involved in the performance of the individual logistics support analyses.

1.5.7   Figure 1-3 displays the structure of the Management Module. The figure provides a clear understanding of the control functions incorporated into the module for upkeep and maintenance of the software.

1.6   SECURITY

SECURITY

1.6.1   ALSAT incorporates a two level security system explained in detail in Chapter 4. It can only be accessed by users whose analyst ID and passwords have been entered into the system. Although the databases contain unclassified information, it is implicit that proper protection of the data be taken to preserve the integrity of the system.

1.7   PROJECT MANAGEMENT TOOLS

1.7.1   American Power Jet Company has developed the Venture Evaluation Review Technique (VERT) network charts to go with each of the LSA modules.

PROJECT MANAGE- MENT TOOLS

The use of the VERT technique to evaluate time, cost and performance requirements will facilitate management decision making.

1.7.2   The PC based version of VERT is available through HQ AMCCOM, AMSMC-LSP. A set of input files, containing dummy data, were created for each of the modules. These input files can be found in the various APJ 966 Reports. The input files need to be modified to reflect the actual/projected time, cost and performance data.

1.8   PACKAGE CONTENTS

LSA PACKAGE

1.8.1   The LSA package comprises the following items:

    Three 5 1/4" 360K Disks
    Four Volumes of the User's Manual

```
                        ┌─────────────────┐
                        │   USER LOG IN   │
                        └────────┬────────┘
                        ┌────────┴──────────┐
                        │ EQUIPMENT SELECTION│
                        └────────┬──────────┘
     ┌──────────┬───────────────┼───────────────┬──────────┐
┌─────────────┐ ┌─────────────┐ ┌─────────────┐ ┌──────────────┐ ┌────────┐
│ OPERATIONS  │ │ MANAGEMENT  │ │  CONCEPTS   │ │ INSTRUCTIONS │ │  EXIT  │
└──────┬──────┘ └──────┬──────┘ └─────────────┘ └──────────────┘ └────────┘
       │      ┌────────┼──────────────────────┐
       │ ┌──────────┐ ┌──────────────┐ ┌──────────────────────┐
       │ │ UTILITIES│ │ HOUSEKEEPING │ │ MANAGEMENT REPORTS   │
       │ └──────────┘ └──────────────┘ └──────────────────────┘
       │
       │         LSA MODULES
   ┌───┴──────────────────────────┐
   │ ┌──────────┐   ┌──────────┐  │
   │ │ ANALYSIS │   │ REPORTS  │  │
   │ └──────────┘   └──────────┘  │
   └──────────────────────────────┘
```
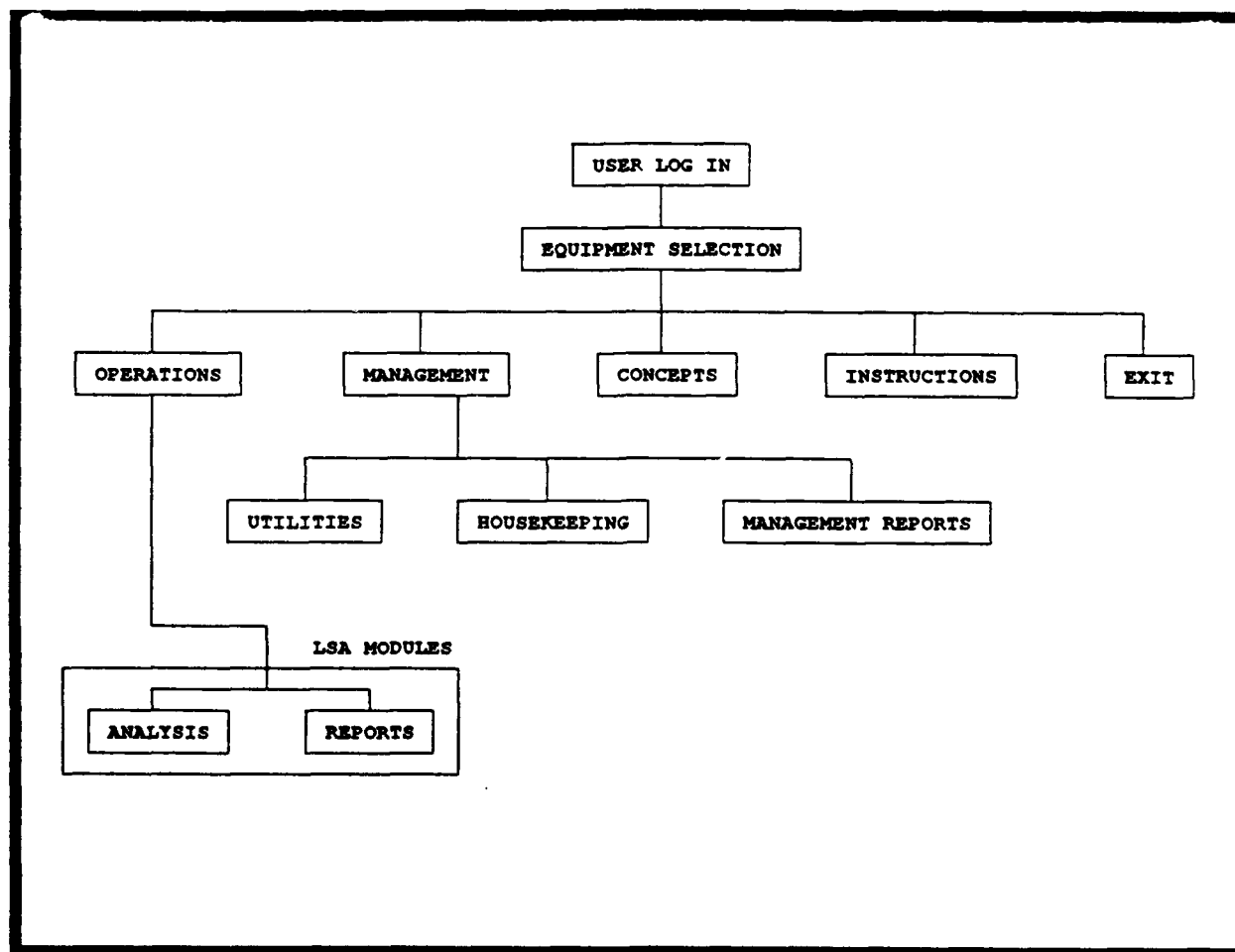
FIGURE 1-1: LSA EXECUTIVE ARCHITECTURE
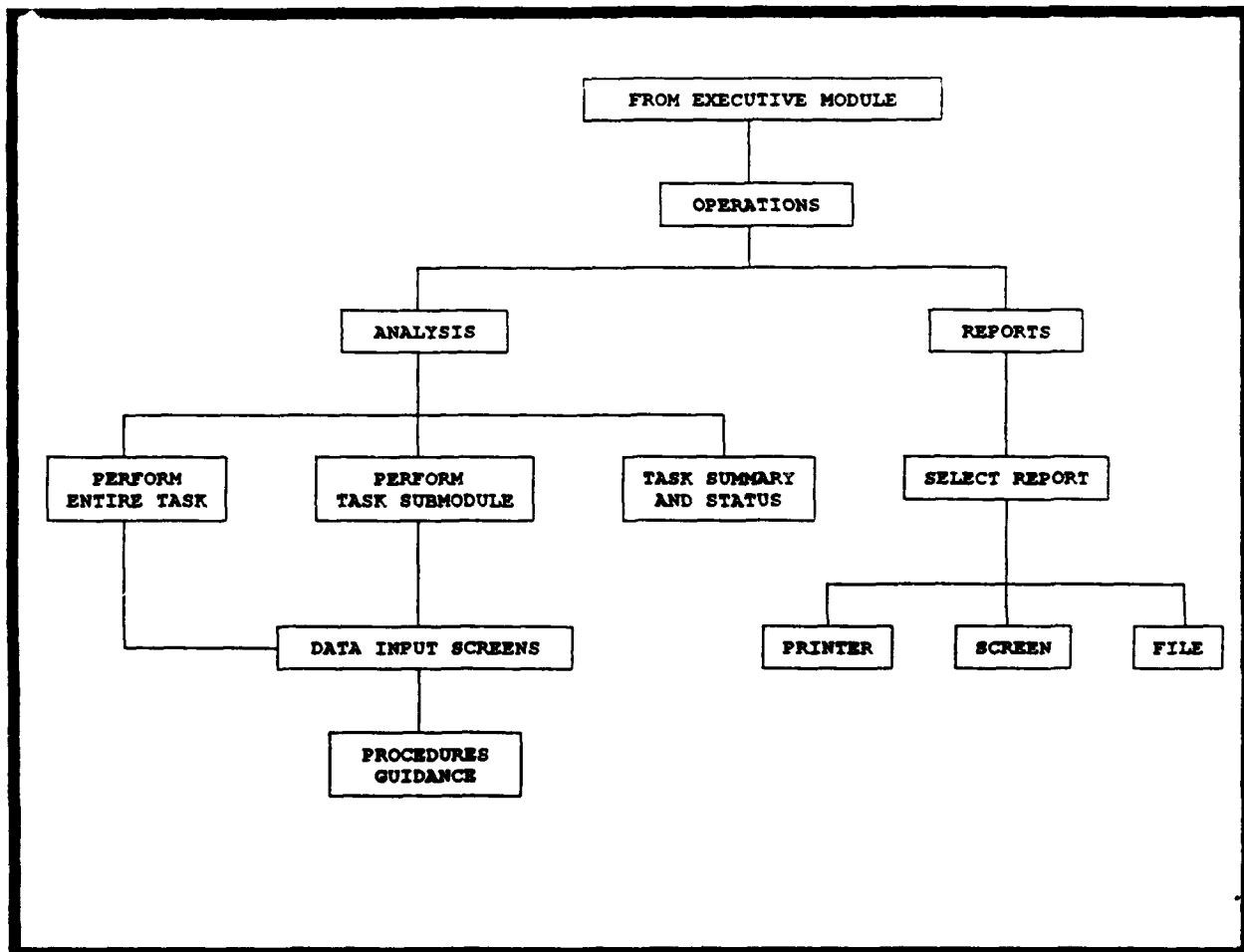
FIGURE 1-2: LSA TASK/SUBTASK LOGIC
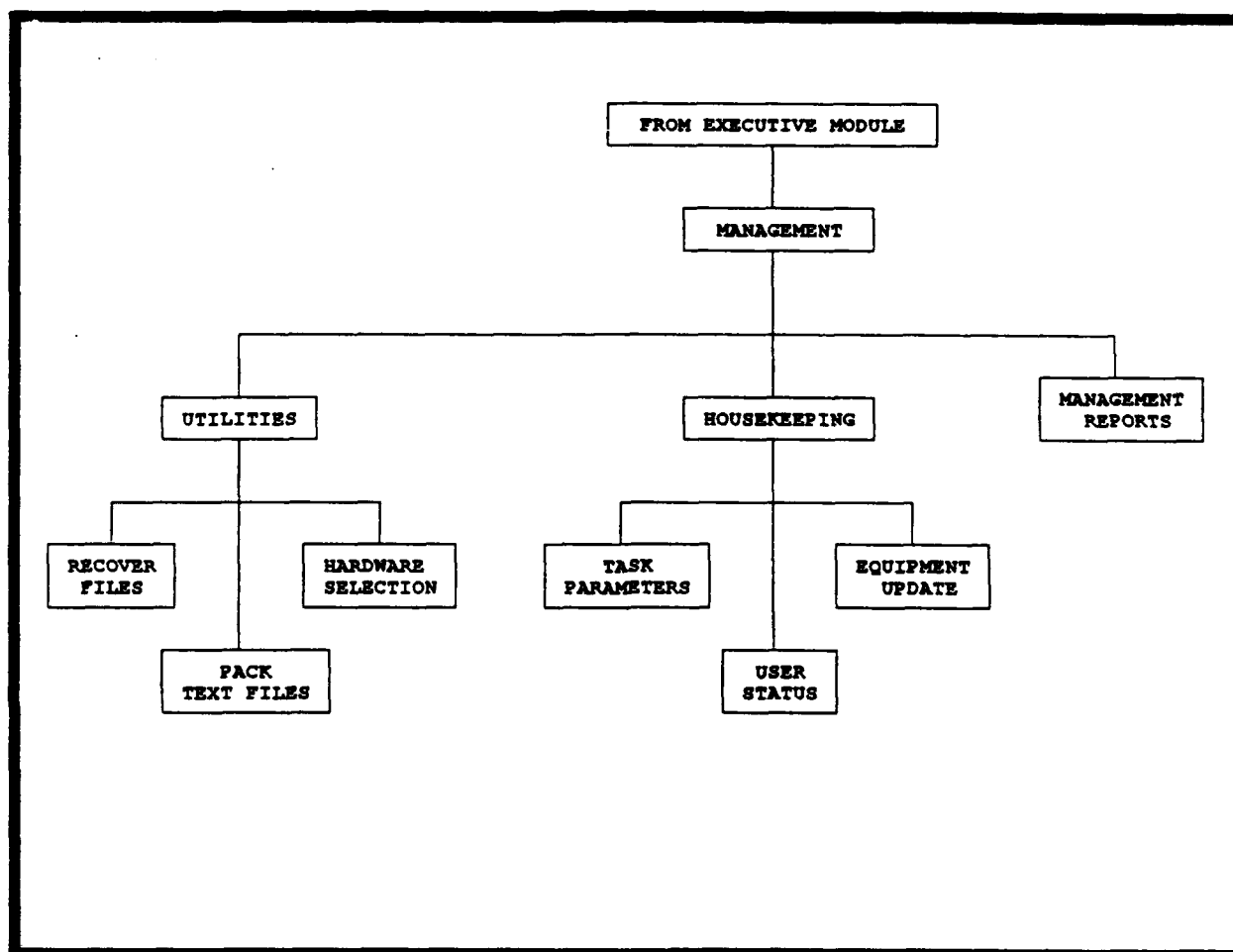
FIGURE 1-3: LSA CONTROL FACILITIES

CHAPTER 2
INSTALLING AND OPERATING ALSAT

2.1   INTRODUCTION

2.1.1   ALSAT provides the logistician with a set of tools to allow him to efficiently evaluate a weapon system as regards its Operability, Supportability and Maintainability.

INTRO-
DUCTION

2.1.2   Version 1.0 of the Logistics Support Analysis software allows the logistician to develop an Early LSA Strategy, Identify Risks, and evaluate the Weapon System for its Battle Damage Survivability characteristics.

2.1.3   This chapter tells the user what is needed to use the ALSAT software, how to install it onto a hard disk and how to Log-In and start using the program for Logistics Support Analysis.

2.2   WHAT YOU NEED

2.2.1   To use the ALSAT software you need:

SYSTEM
REQUIRE-
MENTS

An IBM or 100% compatible PC computer.   The computer must have a hard disk with one floppy disk drive.

At least 640K of RAM on the computer system. This version of the ALSAT is not suitable for use in a networked environment.

DOS version 3.3 or higher.

Any Graphics adapter card with a 80 column monitor (Color or Monochrome)

More than 2MB of hard disk space on the drive in which the software is being installed.

The ALSAT supports a variety of printer drivers listed in Appendix 'A' of this manual.

If reports from the analyses are to be prepared in hard copy, one of the printers supported by the software is also required.

2.3 BACKING UP ALSAT DISKS

BACK UP ORIGINALS

2.3.1   It is advisable to make a back up copy of the original ALSAT disks incase they are lost or damaged.

2.3.2   To make a back up of the disks either of the two DOS commands: **COPY** or **DISKCOPY** may be used. Refer to the DOS manual for further explanations on the use of the two commands.

2.4 INSTALLING ALSAT

2.4.1   ALSAT incorporates an install program to make the installation procedure easy for the user.

NOTE

The ALSAT Install Program must be used to install the software into the hard disk. The DOS COPY commands will not work because several files are compressed and combined into one on each disk.

INSTALLING ALSAT

2.4.2   The install program allows the user to install one or more of the LSA modules into the computer's hard disk. It checks the hard disk for sufficient space and creates a directory called **LSA** into which the software is installed. However, the user has the option to select the drive and change the name of the directory as desired.

TO RUN INSTALL

Insert ALSAT Disk 1 into drive A or drive B

Make drive A or drive B the default drive
Type **<A:>** or **<B:>**

To run Install
Type **<INSTALL>**
Press **<ENTER>**

INSTALL
PROCEDURE

The **Installation Screen** is presented
Respond to the prompt on the screen
Press **<ANY KEY>**

The install program automatically reads all the drives in the computer and prompts the user to select the drive in which to install the software.

NOTE

The drive in which ALSAT is to be installed must have 2MB of disk space in it.

Use the **UP-DOWN Arrow** keys to move the highlight bar to the required drive
Press **<ENTER>**

The program presents the default directory **\LSA** to the user
If the default directory name is accepted
Press **<ENTER>**

If another directory name is desired
Type in **<DIRECTORY NAME>**

The install program allows the user to install one
or more modules of the ALSAT software

Use the **UP-DOWN Arrow** keys to highlight the desired
modules. To change the **NO** option to **YES**
Press *<SPACE BAR>*

When all modules are selected
Press *<ENTER>*

The program will copy the appropriate files into
the hard disk. Follow the program prompts to
insert the required disks at each stage
Press *<ANY KEY>*

When the installation is complete the program
informs the user of the drive and directory into
which the software has been installed. To continue
Press *<ENTER>*

The install program now puts the user back into DOS
and in the LSA directory.

To start the **ALSAT Software**
Type *<LSA>*

NOTE

The manual assumes that the software
installation procedures have been completed
and that the LSA software is in a
subdirectory called LSA which is on the C
drive. If the software resides in any other
drive or subdirectory, the user will need to
make the appropriate changes.

START UP PROCEDURE

*OPERATING
ALSAT*

To enter the LSA software:

Against the prompt C:>
Type *<CD\LSA>*
Press *<ENTER>*

Against the prompt C:\LSA>
Type *<LSA>*
Press *<ENTER>*

On the welcome screen
Press *<ANY KEY TO CONTINUE>*

The **Sign-On screen** is presented to the user (Figure 2-1)

```
 05/21/91              LOGISTIC SUPPORT ANALYSIS              10 04 am



                        ENTER ANALYST ID: USER
                        ENTER PASSWORD:    ****_

              [        ENTER YOUR PERSONAL PASSWORD        ]
```

FIGURE 2-1: LOG-IN PROCEDURE

Type in your <ANALYST ID>
Press <ENTER>

LOGGING IN

Type in your <PASSWORD>

Review Analyst information screen (Figure 2-2)
Use the arrow keys to highlight <ACCEPT>
Press <ENTER>

```
05/21/91              LOGISTIC SUPPORT ANALYSIS              10:19 am


   ANALYST ID....................: USER

   ANALYST FIRST NAME...........: GEORGE

   ANALYST LAST NAME............: CHERNOWITZ

   COMMAND OFFICE SYMBOL........: APJ

   COMMAND OFFICE PHONE.........: 1(201) 999-9999

   COMMAND AUTOVON PHONE........: 201-9999



              [ ACCEPT ]    [ EDIT ]
          ACCEPT CURRENT SIGN ON INFORMATION
```

FIGURE 2-2: ANALYST DETAILS

If the Analyst information is incorrect
Use arrow keys to highlight <EDIT>
Press <ENTER>

EDIT ANALYST
INFORMATION

The cursor appears in the **Analyst First Name** field

Use the **UP-DOWN Arrow** keys to move the cursor from
one field to another

After editing data in the required field
Press <ENTER>

The **Equipment Selection** screen is then presented to the analyst (Figure 2-3)

```
 ┌─────────────────────────────────────────────────────────┐
 │ ┌───────────────────────────────────────────────────────┐ │
 │ │ 05/21/91          LOGISTIC SUPPORT ANALYSIS    10:11 am │ │
 │ └───────────────────────────────────────────────────────┘ │
 │ ┌───────────────────────────────────────────────────────┐ │
 │ │                     EQUIPMENT ID                        │ │
 │ │              ┌────────────────────────┐                 │ │
 │ │              │ 81 MM MORTAR           │                 │ │
 │ │              │ COMVAT                 │                 │ │
 │ │              │ M1A1                   │                 │ │
 │ │              │                        │                 │ │
 │ │              │                        │                 │ │
 │ │              │                        │                 │ │
 │ │              │ End of list            │                 │ │
 │ │              └────────────────────────┘                 │ │
 │ │                                                         │ │
 │ │ Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn>  Select with <↵> │ │
 │ │                                                         │ │
 │ │                   SELECT EQUIPMENT                      │ │
 │ └───────────────────────────────────────────────────────┘ │
 └─────────────────────────────────────────────────────────┘
```

FIGURE 2-3: EQUIPMENT SELECTION

Use the arrow keys to move the highlight bar to the required Equipment
Press **<ENTER>**

Review Equipment details on the **Equipment Details** screen (Figure 2-4)
Press **<ANY KEY TO CONTINUE>**

EDIT EQUIPMENT DETAILS

If Equipment details require to be changed, contact the System manager. The changes to the Equipment details can only be made in the **Management Module** by a user who has a **Manager** access level (Refer Chapter 4 of this manual).

```
05/21/91                    LOGISTIC SUPPORT ANALYSIS                    10:19 am
===================EQUIPMENT IDENTIFICATION: COMVAT=====
  Military Nomenclature: N/A                          Indenture Level: 1
                    Common Name: COMVAT
National Stock Number: N/A                    Manufacturer:HONEYWELL


--------------------------NEXT HIGHER ASSEMBLY--------------------------
   FIFV

                              --------MILESTONE--------
   Program                  Development Phase          Acquisition Management
   FIX MOUNT DEMO TEST      6.2 EXPLORATORY            STREAMLINED

-------------------INFORMATION OF PROJECT MANAGER-------------------
  First Name: GARY                        Last Name: MOSHIER
    Command: AMCCOM                      Office Symbol: SMCAR-CCS-C
  Phone Nbr.: 1(201) 724-6944     Autovon Phone Nbr.: 880-6994
                        --------DISCREPANCY REPORT TO--------
  Name:STEVE TURKE            Phone #:1(309) 782-7830    Command:AMCCOM


                         PRESS ANY KEY TO CONTINUE
                         DETAILED EQUIPMENT INFORMATION
```

FIGURE 2-4: EQUIPMENT DETAILS

2.5   EXECUTIVE MENU SCREEN

The **Executive Main Menu** appears on the screen.   It
allows the user to select one of the following
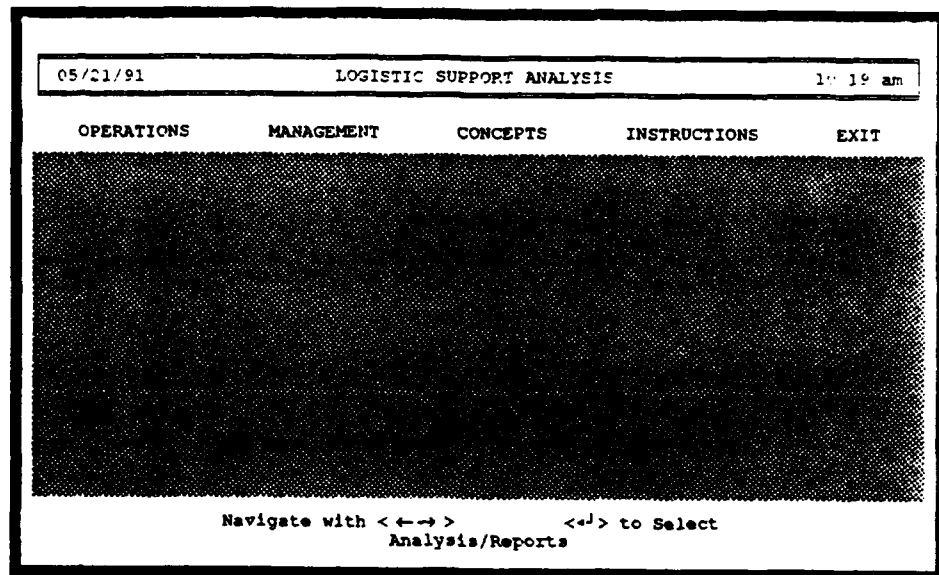options (Figure 2-5):

OPERATIONS

Operations - The user may select a Task or
Subtask and perform the Logistics Support
Analysis or generate reports for the selected
Equipment (Refer to individual LSA Task or
Subtask User's Manual for a detailed
discussion).

MANAGE-
MENT

Management - Allows the user to enter the
Management Module and make use of the
Utilities, Housekeeping or **Management Reports**
facilities (Refer Chapters 3 through 5 of this
manual for a detailed discussion).

CONCEPT

Concept - The user is able to view a text
screen which describes the concept behind the
development of the **Automated Logistic Software
Analysis Tool (ALSAT)**.

| 05/21/91 | LOGISTIC SUPPORT ANALYSIS | 1:19 am |

OPERATIONS   MANAGEMENT   CONCEPTS   INSTRUCTIONS   EXIT

Navigate with < ←→ >   <┘> to Select
Analysis/Reports

FIGURE 2-5: EXECUTIVE MAIN MENU SCREEN

INSTRUCTION   **Instructions** – The user is able to view a text screen which provides general instructions on the use of the software.

EXIT   **Exit** – The user may exit the software by selecting this option.

Use the **RIGHT-LEFT Arrow** keys or the appropriate **Command Key** to move the highlight bar to the required option
Press **<ENTER>**

Use the **UP-DOWN Arrow** key to move the highlight bar to the desired sub-option
Press **<ENTER>**

OPERATIONS

To perform an analysis

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar

USING ALSAT FOR ANALYSIS

```
Select <OPERATIONS>
Press <ENTER>

Use the UP-DOWN Arrow keys to move the highlight
bar
Select <ANALYSIS>
Press <ENTER>

Use the UP-DOWN Arrow keys to move the highlight
bar
Select <REQUIRED TASK>
Press <ENTER>

Use the UP-DOWN Arrow keys to move the highlight
bar
Select <REQUIRED SUBTASK>
Press <ENTER>
```

The Task or Subtask menu appears at this stage
Use the **UP-DOWN Arrow** keys to select the required
option on the manu

(For a detailed description on the use of a
specific Task or SubTask consult the appropriate
manual)

2.6   ADDITIONAL FUNCTIONS

ADDITIONAL FUNCTIONS

2.6.1   The software incorporates two additional
functions: The **F9 - Note Function** and the
Task/Subtask Summary Status function.

2.6.2   The two functions are designed to
facilitate the analysts' work and allow the manager
to more effectively control the project.

2.7   F9 NOTE FUNCTION

F9 NOTEPAD FACILITY

2.7.1   This function is designed to provide the
analyst with an electronic notepad facility. The
analyst may use this function at any time during
the analysis to record facts or issues pertaining
to the analysis.

2.7.2   This facility is available to the analyst
on all screens. It can be accessed on any screen
by using the **F9** key. There is only one record for
each **EQUIPMENT-LSA TASK/SUBTASK** combination. This
implies that if an analyst, while performing an LSA
on an equipment, selects the **F9** key several times
during the same session or different sessions, the
same data screen will be presented to analyst. The
analyst could either add more notes or edit the
existing note.

2.7.3   The **F9** note function also incorporates a
few fixed fields. Figure 2-6 shows the **F9 NOTE**
screen. These fixed fields allow the analyst to
attach attributes to the note.   The three
attributes that an analyst may attach to the note
are the **CRITICALITY RATING, ACTION DATE** and an
ACTION OFFICE. The three ratings available to the
analyst are **CRITICAL, ROUTINE** and **NO ACTION**. It is
mandatory for the analyst to attach a criticality
rating to a note.

FIGURE 2-6: F9-NOTE

2.7.4   The **F9 NOTE** function also incorporates **HELP**. There are two types of **HELP** available to the user in this note function - **PROCESS METHODOLOGY** and **SOFTWARE GUIDANCE**. A detailed explanation of the types of **HELP** incorporated in the software appears in the individual LSA User's Manual

TO ADD/EDIT DATA

To use the **F9 NOTE** function
Press **<F9>**

The **F9 NOTE** screen overlays on the existing screen

To Add/Edit data on this screen
Press **<F5>**

SELECT
CRITICALITY
RATING

A look-up window containing the three criticality ratings appears on the screen. Use the **UP-DOWN Arrow** keys to move the highlight bar to the desired criticality rating (Figure 2-7).

Press **<ENTER>**The cursor then moves to the **ACTION DATE** field
Type in the **<DATE>**The cursor then moves to the **ACTION OFFICE** field
Type in the **<ACTION OFFICE>**

To save data entered in the memo header
Press **<F10>**

The cursor then moves to the memo field. The analyst may type in any data in a narrative form into the memo field. The memo field works as a full text word processor.

To save data entered into the memo field
Press **<F10>**

2.7.5   The user has a number of options available to output and review data entered on this screen.

FIGURE 2-7: EDIT F9-NOTE CRITICALITY RATING

2.7.6   To review the data entered in the memo field, the user may have to resort to scrolling.

To scroll the screen
Press <F4>

2.7.7   The data on this screen can be output to three devices — **SCREEN, PRINTER** and **DISK**.

SELECT
OUTPUT   To produce an output report
DESTI-   Press <F6>
NATIONS

2.7.8   When **F6** is pressed the program generates the report, then the user is prompted to select an output device.

2.7.9   To view the report on the screen
Use the arrow keys to highlight the **SCREEN** option in the box
Press <ENTER>

2.7.10   To send the report to the printer
Use the arrow keys to select the **PRINTER** option in the box

Press <ENTER>

2.7.11   To save the report to a disk file
Use the arrow keys to select the **DISK** option in the box
Press <ENTER>

Specify Path — Drive Name\Directory\Subdirectory\
File Name and Extension, e.g.,
C:\LSA\REPORTS\STATREP1.BDR

2.7.12   To start a **NEW NOTE**
Press <F2>

> **NOTE**
>
> The user is cautioned that starting a new note erases the old one. The analyst should save the old note to a disk or output a hard copy of the old note if this option is used. The software also displays an error message to this effect.

2.7.13   To exit to the **MAIN MENU** from this Submodule
Press <ESC>

2.8   TASK/SUBTASK SUMMARY AND STATUS SCREEN

2.8.1   The **Subtask Summary** and **Status** Submodule is a separate entity by itself. It has no effect on the performance of the analysis. There is one record for each **EQUIPMENT-LSA TASK/SUBTASK** combination. The Submodule can only be accessed by a user with a **MANAGER** level access status.

SUBTASK
SUMMARY
AND STATUS

2.8.2   The purpose of this Submodule is to allow the Program Manager or analyst to input comments regarding progress and/or the performance of the task.   The Submodule may also be used to address any areas which require special attention.   It provides the user with a memo field for comments on the analysis and its effect on program status.

CRITICALITY
RATING
OPTIONS

2.8.3   The analyst is also provided the opportunity to enter an overall assessment on the performance of the LSA Subtask for the equipment. The analyst may record areas which are critical and allocate a final criticality rating to the task. Three criticality ratings are available to the user.   These are **RED**, **AMBER** and **GREEN**.   This submodule cannot be accessed through any of the other submodules under the main LSA Task/Subtask module.

TO ADD/EDIT DATA

From the **MAIN MENU** select **SUBTASK SUMMARY AND STATUS**.

Use the **UP-DOWN Arrow** keys to move the highlight bar.   Highlight the **SUBTASK SUMMARY AND STATUS** option.
Press **<ENTER>**

Figure 2-8 displays the **SUBTASK SUMMARY AND STATUS** screen.

If there is no data in the database, the user is presented with blank fields on the screen.   If there is data, the screen presents the existing data.

The user may add data to the screen or edit the existing data.

To perform either option
Press **<F5>**

```
04/18/91       303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR.         @ 11 am

                          EQUIPMENT TYPE: COMVAT
                       Task/Subtask Summary and Status

                            Rating: GREEN
           Action Office: APJ-Ridegefield       Action Date: 04/15/91

       Battle Damage Assessment and Repair on the COMVAT has been completed.
       Reports have been distributed to the respective agencies.




     F1-Help     F4-Scroll Screen    F5-Add/Edit    F6-Print    Esc-Quit to Menu
                       Select Appropriate Function Key
```

**FIGURE 2-8:   TASK/SUBTASK SUMMARY AND STATUS
                   SCREEN**

A look-up window containing the three criticality
ratings appears on the screen (Figure 2-9).

Use the highlight bar to select the required rating
Press **<ENTER>**

The cursor moves over to the **ACTION DATE** field.
Type in the **<DATE>**

The selected date should be the date by which
action is required to be taken on the note.   It is
not mandatory to enter any action date.

The cursor then moves over to the field marked
ACTION OFFICE.   It is not mandatory to fill in the
Action Office name.
Type in the name of the **<ACTION OFFICE>**

Before moving to the memo field the analyst is
prompted to save the data entered in the memo
header.

```
04/18/91      303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR        6:11 am
                        EQUIPMENT TYPE: COMVAT
                     Task/Subtask Summary and Status

                          Rating: GREEN
         Action Office: APJ-Ridgefield               /15/91
                                        Criticality
                                          Rating
         Battle Damage Assessment and Repair on the              completed.
         Reports have been distributed to the respec    RED
                                                         AMBER
                                                         GREEN




         F1-Help      Navigate with <↑↓>     Select with <↵>     Quit with <Esc>
                          Select Appropriate Criticality Rating
```

FIGURE 2-9: EDIT CRITICALITY RATING

To save the data
Press <F10>

The cursor then moves to the memo field

The analyst may add to the existing memo or edit
the data on the screen. If there is no data the
analyst may enter fresh data on to the screen.

Press <F10> to save data entered into the memo
field

2.8.4   The user has a number of options
available to output and review data entered on this
screen.

2.8.5   To review the data entered into the memo
field the user may have to resort to scrolling.

To scroll the screen
Press <F4>

2.8.6   The data on this screen can be output to
three devices - SCREEN, PRINTER and DISK.

To produce an output report
Press **<F6>**

2.8.7   When **F6** is pressed the program generates
the report, then the user is prompted to select an
output device.

2.8.8   To view the report on the screen
Use the arrow keys to highlight the **SCREEN** option
in the box
Press **<ENTER>**

2.8.9   To send the report to the printer
Use the arrow keys to select the **PRINTER** option in
the box
Press **<ENTER>**

2.8.10   To save the report to a disk file
Use the arrow keys to select the **DISK** option in the
box
Press **<ENTER>**

Specify Path - Drive Name\Directory\Subdirectory\
File Name and Extension, e.g.,
C:\LSA\REPORTS\SUMSTAT1.BDR

2.9   EXITING A TASK OR SUBTASK

2.9.1   When you have finished working on a Task
or Subtask move the highlight bar to the option
marked **Exit** on the Task/Subtask menu
Press **<ENTER>**

2.9.2   The software prompts the user to confirm
whether the Task or Subtask may be marked as having
been completed (Figure 2-10)

MARKING TASK/ SUBTASK AS COMPLETE

If Task or Subtask is not completed
Select **<NO>**
Press **<ENTER>**

If Task or Subtask is completed ·
Select **<YES>**
Press **<ENTER>**

```
┌─────────────────────────────────────────────────────────────┐
│ 05/21/91      303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR    10 09 am │
│                   EQUIPMENT TYPE: 81 MM MORTAR                  │
│ ▬ Scheduled Start Date: 01/10/91 ━━━━━━━━ Scheduled Finish Date: 02/28/91 ▬ │
│                                                                 │
│                  Is Subtask 303.2.11 Completed?                 │
│                                                                 │
│                   ┌────┐        ┌────┐                          │
│                   │ NO │        │ YES│                          │
│                   └────┘        └────┘                          │
│                                                                 │
│                   RETURN TO LSA MAIN MENU                       │
│                                                                 │
│   F1 For Instructions    Navigate with <↑↓>   Select with <┙>   │
└─────────────────────────────────────────────────────────────┘
```

FIGURE 2-10: EXIT LSA TASK/SUBTASK MODULE

To generate reports

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar
Select *<OPERATIONS>*
Press *<ENTER>*

Use the **UP-DOWN Arrow** keys to move the highlight bar

USING ALSAT   Select *<REPORTS>*
TO GENERATE   Press *<ENTER>*
REPORTS

Use the **UP-DOWN Arrow** keys to move the highlight bar
Select *<REQUIRED TASK>*
Press *<ENTER>*

Use the **UP-DOWN Arrow** keys to move the highlight bar
Select *<REQUIRED SUBTASK>*
Press *<ENTER>*

The Task or Subtask Reports menu appears at this stage

For a detailed description on the use of a specific
Task or SubTask consult the appropriate manual

MANAGEMENT

This option is only accessible by a user with a
Manager level status. Details on the use of this
option can be found in Chapters 3 through 5 of this
manual.

*USING ALSAT
FOR MANAGE-
MENT
CONTROL*

Use the **LEFT-RIGHT Arrow** keys to move the highlight
bar
Select *<MANAGEMENT>*
Press *<ENTER>*

Use the **UP-DOWN Arrow** keys to move the highlight
bar
Select *<REQUIRED OPTION>*
Press *<ENTER>*
Refer to the appropriate chapter in this manual for
further explanation

CONCEPT

This option is accessible by all users.

*ALSAT
CONCEPT*

Use the **LEFT-RIGHT Arrow** keys to move the highlight
bar
Select *<CONCEPT>*
Press *<ENTER>*

A text screen is presented which describes the
concept behind the development of the ALSAT. The
first time user is advised to read through this
screen before commencing to use the software.

INSTRUCTIONS

This option is accessible by all users.

INSTRUCTION

Use the **LEFT-RIGHT Arrow** keys to move the highlight
bar

Select <INSTRUCTIONS>
Press <ENTER>

A text screen is presents generalized instructions
on the use of the software. For more detailed
information on the use of a specific LSA module the
user is advised to read the instruction screen
within each module and refer to the manual for the
Task or Subtask.

EXIT

This option allows the user to exit the software
and return to DOS.

LEAVING   Use the **LEFT-RIGHT Arrow** keys to move the highlight
ALSAT   bar
                 Select <EXIT>
                 Press <ENTER>

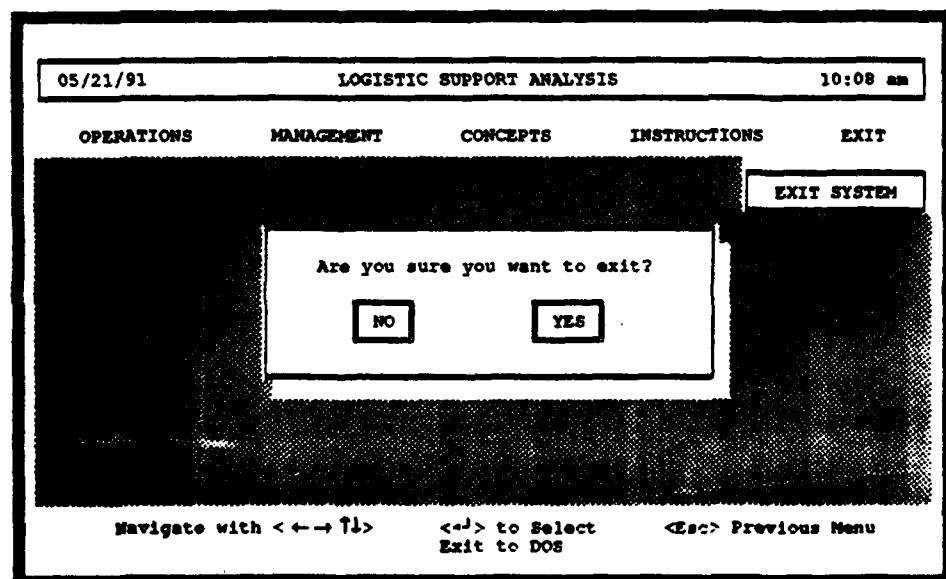The program asks the user to confirm the selection
(Figure 2-11)

FIGURE 2-11: EXIT LSA SYSTEM

Use the **LEFT-RIGHT Arrow** keys to highlight the either **YES** or **NO**
Press *<ENTER>*

The user is returned to DOS when the program ia exited.

CHAPTER 3
UTILITIES

3.1 INTRODUCTION

3.1.1   The **Management Module** has primarily been developed for use by Program/ILS Managers and other designated supervisors responsible for assuring that Tasks and Subtasks get assigned, performed and completed within specified scheduled dates. All other users, however, will have access only to the Utilities Submodule within the Management Module. This will allow them to recover corrupted files, pack text files and select the output device to be used for hard copy reports.

MANAGE-
MENT
MODULE

3.1.2   The Module itself is designed to be very user friendly. The user is provided with **On-Line Help** and **Look-Up Screens** to facilitate data entry. The use of this manual will lead the Management User through that portion of the LSA software designed to provide reports on Task and Subtask status and ensure data integrity and security of the system.

> **NOTE**
>
> Applicable portions of this Chapter have been reproduced verbatim in Chapter 4 and Chapter 5. This will make the chapters dealing with the Submodules self contained and will facilitate use of this manual.

3.1.3   This volume of the User's Manual has been designed for use with the **Executive** of the Software.   It specifically deals with the **Installation Procedures** and the use of the **Management Module**.   The **Management Module** is divided into three parts: Chapter 3 describes the use of the **Utilities Submodule**, Chapter 4 describes the use of the **Housekeeping Submodule**, and Chapter 5 deals with the use of the **Management Reports Submodule**.

3.2   EXECUTIVE MENU SCREEN

EXECUTIVE MENU

3.2.1   The analyst Logs into the system using the Analyst ID and Password. The user then selects the Equipment on which the analysis is to be performed. A detailed description of the Log-In procedures is provided in Chapter 2 of this manual.

3.2.2   Once   the   Log-In   procedures   are successfully completed the **Executive Menu Screen** (Figure 3-1) is presented on the screen.

3.2.3   The **Executive Menu** screen allows the user to select one of five options. These are:

OPERATIONS

Operations – The user may select a Task or Subtask and perform the Logistics Support Analysis or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

MANAGE-MENT

Management – Allows the user to enter the Management Module and make use of the **Utilities, Housekeeping** or **Management Reports** facilities (Refer Chapters 3 through 5 of this manual for a detailed discussion).

CONCEPT

Concept – The user is able to view a text screen which describes the concept behind the development of the **Automated Logistic Software Analysis Tool (ALSAT)**.
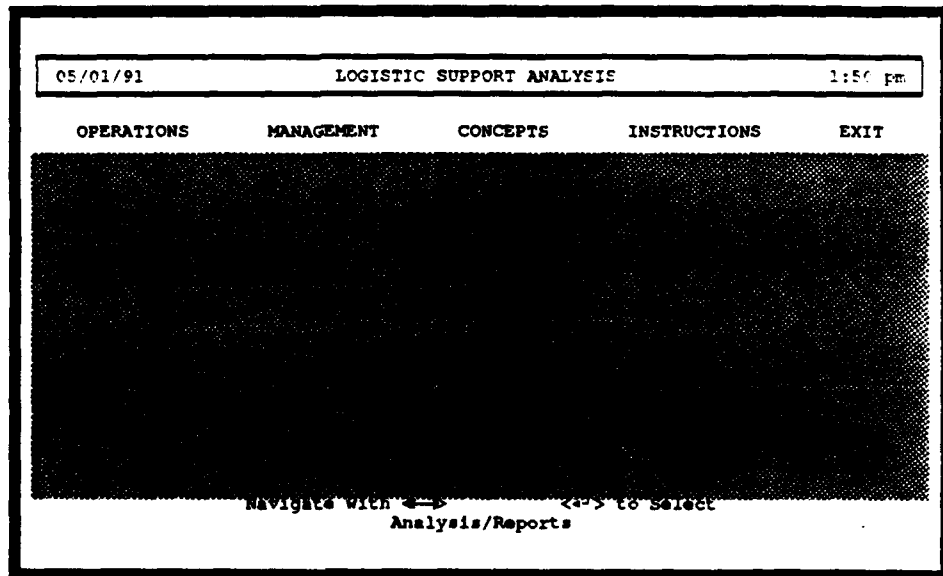
FIGURE 3-1: EXECUTIVE MENU SCREEN

INSTRUCTION

Instructions – The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit – The user may exit the software by selecting this option.

3.3   MANAGEMENT MODULE

MANAGE-
MENT
MODULE
OPTIONS

3.3.1   The **Management Module** comprises three facilities to assist in managing and controlling the LSA program (Figure 3-2). The three management facilities available to the users are:

    Utilities
    Housekeeping
    Management Reports

UTILITIES

3.3.2   **Utilities** – This option is available to all classes of users, and refers to the utilities provided to allow users to **Re-index, Pack Text Files and Select Output Device**. The three choices
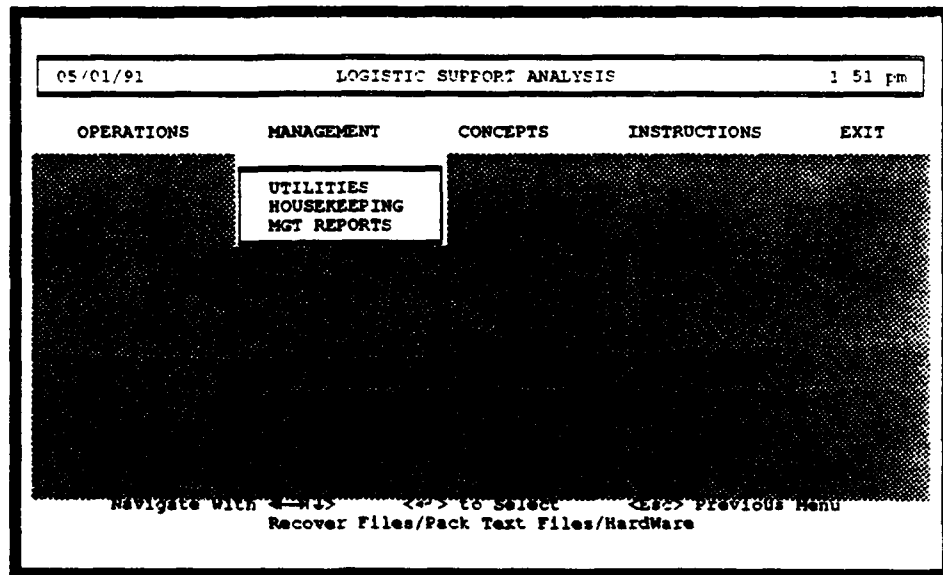
FIGURE 3-2: MANAGEMENT MODULE MENU SCREEN

permit the user to recover from a broken chain of related data in the databases; to pack databases eliminating deleted records and extra space required by text files, and to select appropriate print devices.

**HOUSE-
KEEPING**

3.3.3 **Housekeeping** – This option is available for use only by a user with a **Manager status**. It allows the management user to establish or change task parameters (i.e., scheduled start and finish dates and criticality); to modify user status and details, and to modify details of the Equipments that may be analyzed using the software.

**MANAGE-
MENT
REPORTS**

3.3.4 **Management Reports** – This choice is also for use only by a user with **Manager status**. It allows the management user to generate reports on all or some of the Tasks and Subtasks for summarization as to status and criticality.

TO ENTER THE MANAGEMENT MODULE

USE MANAGE-
MENT
MODULE

Follow procedures outlined in Chapter 2, to **Log-In**
and **SELECT THE EQUIPMENT** you wish to analyze

On the **Executive Menu Screen**
Use the **LEFT-RIGHT Arrow** to move the highlight bar
to **MANAGEMENT**
Press **<ENTER>**

3.4　MANAGEMENT SUB-MENU

MANAGE-
MENT SUB-
MENU

The **Management Sub-Menu** contains three options
(Figure 3-2):

> Utilities
> Housekeeping
> Management Reports

The three options are dealt with individually in
separate chapters.　The preceding material is
verbatim to facilitate use of the manual.

3.5　UTILITIES SUBMODULE

UTILITY
OPTIONS

3.5.1　　The Utilities Submodule has three choices
available to all users of the software (Figure 3-
3).　These options are:

> Recover Files
> Pack Text Files
> Hardware

RECOVER
FILES

3.5.2　　**Recover Files** － Database files
occasionally get corrupted due to inadvertent
interruptions in program execution, file transfers
and a host of other causes.　Further, when data is
marked for deletion, it may still exist in the
database.　For these reasons, a database file must
be periodically re-indexed and packed.

3.5.3　　The **Recover Files** facility re-indexes
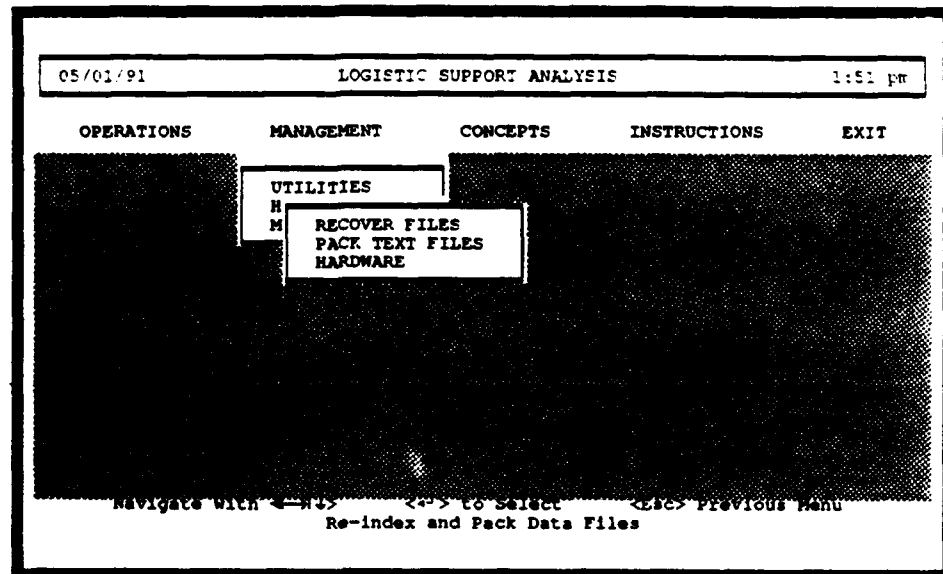the data base files and packs them so that the

FIGURE 3-3: UTILITIES SUBMODULE MENU SCREEN

databases are maintained in good order and all records marked for deletion are removed, thereby optimizing disk space.

3.5.4   The user has the option to specify the LSA Task or Subtask files that need re-indexing and packing.

3.5.5   When the program executes this facility, a continuous display of the files being recovered is made available to the user.

PACK TEXT FILES

3.5.6   **Pack Text Files** - Every database file (*.DBF) with a memo field in it has an associated *.DBT file. Every time new data is put into the memo fields, it replaces the old data in this field. However, the old data still continues to occupy disk space although it is never presented to the user as current data.

3.5.7   The **Pack Text Files** facility removes this old data from the *.DBT files, thus conserving disk space.

3.5.8   The program continuously displays the names of the files being packed during execution.

PRINTER
SELECTION

3.5.9   **Hardware** - This utility option allows the user to select the printer device from a list, to be used to output reports from the software. It also permits the user to specify formatting parameters, e.g., number of lines per page and the left and right margins.

3.5.10   The Logistics Support Analysis Software supports a variety of printer types. The user has the option of selecting from one of the following types of printers:

AVAILABLE
PRINTER
DRIVERS

Epson E/F/J/RX/LQ
HP Laser Jet
IBM Proprinter
Panasonic KX-P1091
TI 850/855

3.5.11   The user is limited in the selection of formatting parameters to:

REPORT
FORMAT
SPECI-
FICATIONS

Number of Lines per Page 0-65
Top Margin   0-30 lines
Left Margin   0-09 spaces

TO USE THE UTILITIES SUBMODULE

Use the **UP-DOWN Arrow** keys to move the highlight bar onto the **UTILITIES** option
Press **<ENTER>**

The Utilities submenu is shown in Figure 3-3

TO USE THE RECOVER FILES OPTION

Use the **UP-DOWN Arrow** keys to move the highlight bar to **RECOVER FILES**
Press **<ENTER>**

The list of Tasks and Subtasks appears on the screen (Figure 3-4)

```
 05/01/91              LOGISTIC SUPPORT ANALYSIS              1 53 pm

    OPERATIONS      MANAGEMENT      CONCEPTS      INSTRUCTIONS      EXIT

                     UTILITIES
                   H
                   M    RECOVER FILES
                        PACK TEXT FILES
                      [ LSA TASK/SUBTASK ]
    √ 101          DEVELOPMENT OF EARLY LSA STRATEGY
      301.2.1/2    NEW EQUIPMENT FUNCTIONAL REQUIREMENTS
    √ 301.2.3      IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS
      301.2.4.1    FAILURE MODES,EFFECTS AND CRITICALITY ANALYSIS (FMECA)
      301.2.4.2    RELIABILITY CENTERED MAINTENANCE (RCM)
      301.2.4.3    OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS
      301.2.5      DESIGN ALTERNATIVES
      302.2.1/2    ALTERNATIVE SUPPORT CONCEPTS
      302.2.3/4    ALTERNATIVE EQUIPMENT SUPPORT PLANS
    More.......

        Navigate with <↑↓, Home, End, PgUp, PgDn>     Finish with <F10>
     Select/Unselect Item with <↵>      Select/Unselect all with <SHIFT+F10>
                    Select LSA Task/Subtask to Re-Index
```

FIGURE 3-4:   SELECT LSA TASK/SUBTASK FOR FILE RECOVERY/PACKING

Use the **UP-DOWN Arrow** keys to highlight the Task or Subtask containing files that have to be recovered Press **<ENTER>** .

RECOVER DATABASE FILES

Repeat the above step for each Task and Subtask

To recover files of all Tasks and Subtasks Press **<SHIFT+F10>**

When you have finished marking the Tasks and Subtasks containing files that have to be recovered Press **<F10>**

The program begins to recover the files

Figure 3-5 displays the working of the LSA software
as each file is being re-indexed and packed by the
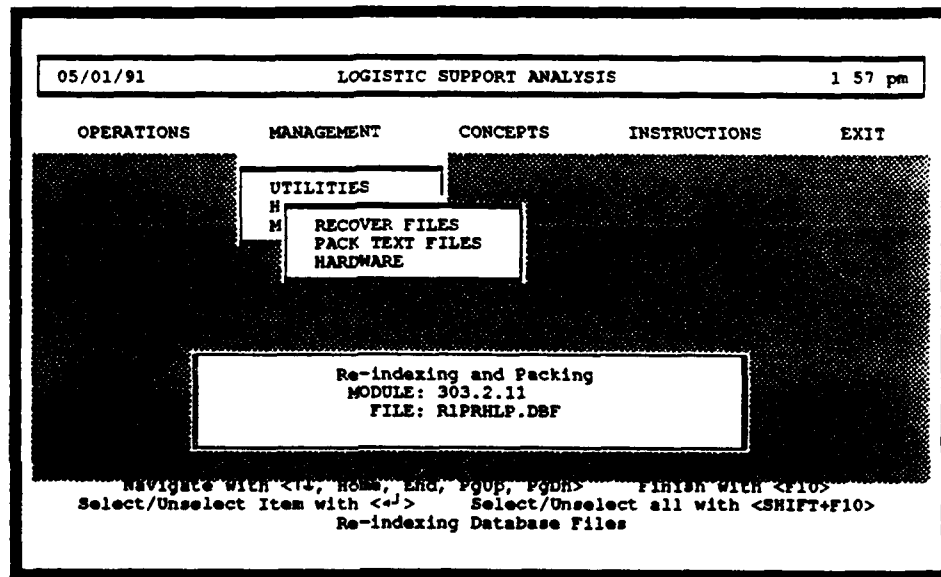program

FIGURE 3-5: RE-INDEXING DATABASE FILE

TO USE THE PACK TEXT FILES OPTION

Use the **UP-DOWN Arrow** keys to move the highlight
bar to **PACK TEXT FILES**
Press **<ENTER>**

*PACK *.DBT FILES*

The list of Tasks and Subtasks appears on the
screen (Figure 3-4)

Use the **UP-DOWN Arrow** keys to highlight the Task or
Subtask containing text files that need to be
packed
Press **<ENTER>**

**Repeat the above step for each Task and Subtask
with text files that are to be packed**

NOTE

The **Pack Text Files** option removes old data from the *.DBT files thereby conserving disk space

To select all Tasks and Subtasks
Press **<SHIFT+F10>**

Having finished marking the Tasks and Subtasks
containing text files that need to be packed
Press **<F10>**

Figure 3-6 displays the working of the LSA software
as each file is being re-indexed and packed by the
program

| 05/08/91 | LOGISTIC SUPPORT ANALYSIS | 2:26 pm |

OPERATIONS   MANAGEMENT   CONCEPTS   INSTRUCTIONS   EXIT

UTILITIES

RECOVER FILES
PACK TEXT FILES
HARDWARE

Packing Text Files
MODULE: CENTRAL DATABASE
FILE: RCCXHLP.DBT

Navigate with <↑↓, Home, End, PgUp, PgDn>   Finish with <F10>
Select/Unselect Item with <↵>   Select/Unselect all with <SHIFT+F10>
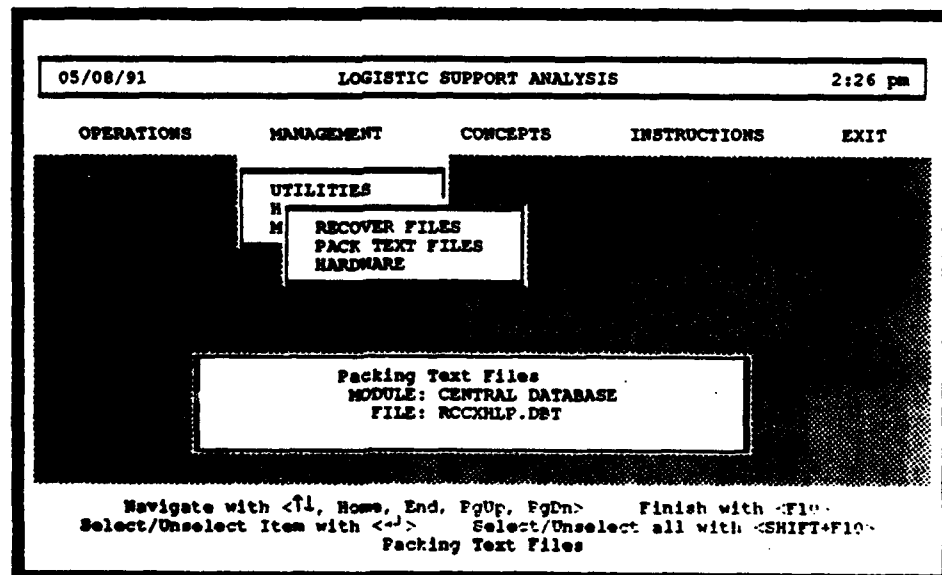Packing Text Files

FIGURE 3-6: PACKING TEXT FILES

TO USE THE HARDWARE OPTION

This Submodule allows the user to set the default
printer setting from the available printer drivers

Use the **UP-DOWN Arrow** keys to move the highlight
bar to **HARDWARE**
Press **<ENTER>**

SELECTING
PRINTER
DEVICE

A look-up window appears on the screen containing
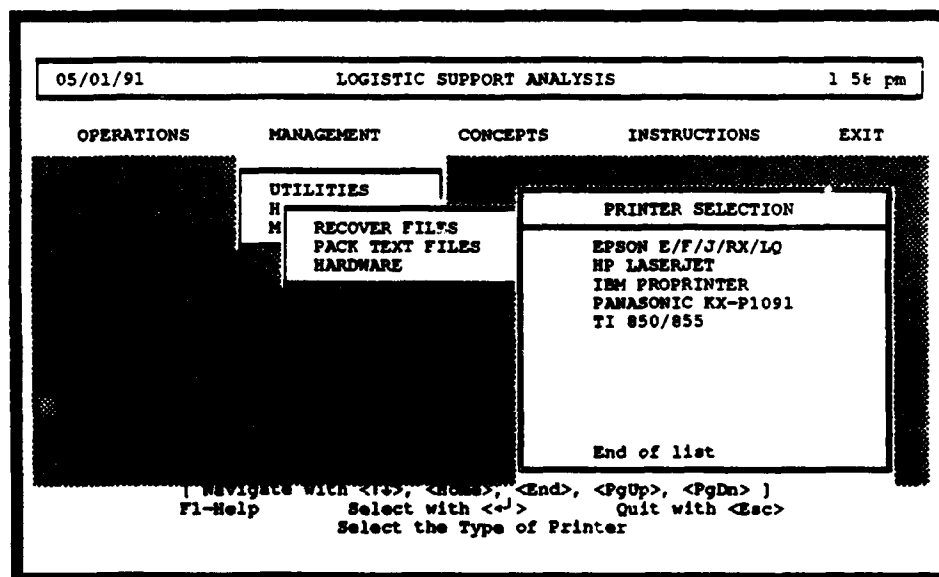the list of printer drivers supported by the
software (Figure 3-7)

FIGURE 3-7: PRINTER SELECTION

Use the **UP-DOWN Arrow** keys to move the highlight
bar to the desired printer
Press **<ENTER>**

A second look-up window appears on the screen where
the format specifications have to be selected
(Figure 3-8)

```
 05/01/91              LOGISTIC SUPPORT ANALYSIS              1:58 pm

    OPERATIONS      MANAGEMENT      CONCEPTS      INSTRUCTIONS      EXIT

                  UTILITIES
                  H                              PRINTER SELECTION
                  M   RECOVER FILES
                      PACK TEXT FILES      Printer: IBM PROPRINTER
                      HARDWARE
                                           Lines per page: 55

                                           Top Margin:      6

                                           Left Margin:     8



    F1-Help      ↑↓-Prev/Next Field         F10-Save        Esc-Abort
                 Set Margins and Page Length
```

FIGURE 3-8: REPORT FORMAT PARAMETERS

> **NOTE**
>
> The user is limited in the selection of
> formatting parameters to:
>
> Number of Lines per Page 0-65
> Top Margin   0-30 lines
> Left Margin   0-09 spaces

Type in *<NUMBER OF LINES PER PAGE>*
Press *<ENTER>*

Type in *<TOP MARGIN>*
Press *<ENTER>*

Type in *<LEFT MARGIN>*
Press *<ENTER>*

CHAPTER 4
HOUSEKEEPING

4.1 INTRODUCTION

4.1.1   The **Management Module** has primarily been developed for use by Program/ILS Managers and other designated supervisors responsible for assuring that Tasks and Subtasks get assigned, performed and completed within specified scheduled dates. All other users, however, will have access only to the Utilities Submodule within the Management Module. This will allow them to recover corrupted files, pack text files and select the output device to be used for hard copy reports.

MANAGE-
MENT
MODULE

4.1.2   The Module itself is designed to be very user friendly. The user is provided with **On-Line Help** and **Look-Up Screens** to facilitate data entry. The use of this manual will lead the Management User through that portion of the LSA software designed to provide reports on Task and Subtask status and ensure data integrity and security of the system.

> **NOTE**
>
> Applicable portions of this Chapter have been reproduced verbatim in Chapter 3 and Chapter 5. This will make the chapters dealing with the Submodules self contained and will facilitate use of this manual.

4.1.3   This volume of the User's Manual has been designed for use with the **Executive Shell** of the Software.   It specifically deals with the **Installation Procedures** and the use of the **Management Module**.   The use of the Management Module is divided into three parts: Chapter 3 describes the use of the **Utilities Submodule**, Chapter 4 describes the use of the **Housekeeping Submodule**, and Chapter 5 deals with the use of the **Management Reports Submodule**.

4.2   EXECUTIVE MENU SCREEN

EXECUTIVE MENU

4.2.1   The analyst Logs into the system using the Analyst ID and Password. The user then selects the Equipment on which the analysis is to be performed. A detailed description of the Log-In procedures is provided in Chapter 2.

4.2.2   Once the Log-In procedures are successfully completed, the **Executive Menu Screen** (Figure 4-1) is presented on the screen.

4.2.3   The **Executive Menu** screen allows the user to select one of five options. These are:

OPERATIONS

Operations - The user may select a Task or Subtask and perform the Logistics Support Analysis, or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

MANAGE-MENT

Management - Allows the user to enter the Management Module and make use of the **Utilities**, **Housekeeping** or **Management Reports** facilities (Refer to Chapters 3 through 5 of this manual for a detailed discussion).

CONCEPT

Concept - The user is able to view a text screen which describes the concept behind the development of the **Automated Logistic Software Analysis Tool (ALSAT)**.
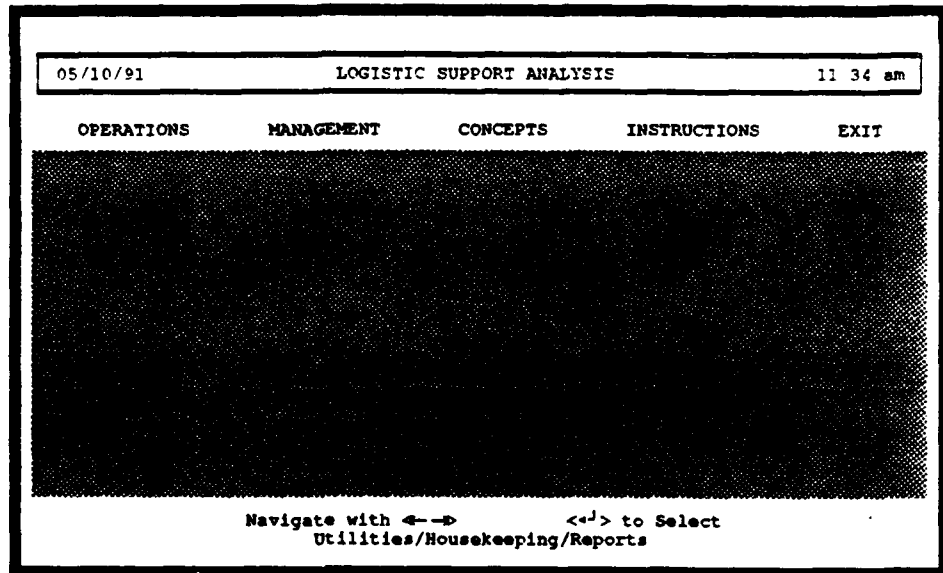
```
 05/10/91              LOGISTIC SUPPORT ANALYSIS            11 34 am

      OPERATIONS      MANAGEMENT      CONCEPTS      INSTRUCTIONS      EXIT
```

Navigate with ◄──►   <◄┘> to Select
Utilities/Housekeeping/Reports

FIGURE 4-1: EXECUTIVE MENU SCREEN

INSTRUCTION

Instructions – The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit – The user may exit the software by selecting this option.

4.3 MANAGEMENT MODULE

MANAGE-
MENT
MODULE
OPTIONS

4.3.1   The **Management Module** comprises three facilities to assist in managing and controlling the LSA program (Figure 4-2). The three management facilities available to the users are:

     Utilities
     Housekeeping
     Management Reports

UTILITIES

4.3.2   **Utilities** – This option is available for use by all classes of users and refers to the utilities provided to allow users to **Re-index, Pack Text Files and Select Output Device**. The three
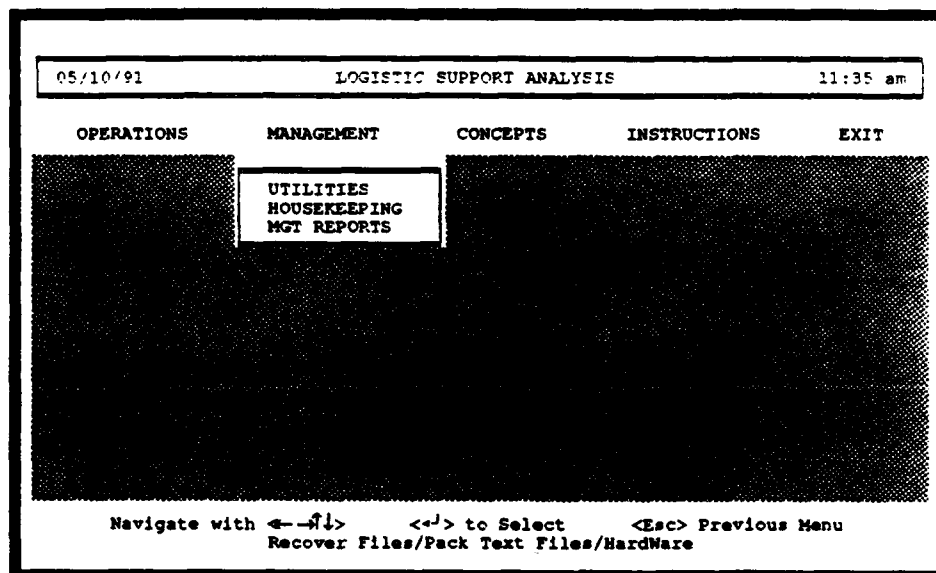
```
05/10/91              LOGISTIC SUPPORT ANALYSIS                11:35 am

    OPERATIONS      MANAGEMENT      CONCEPTS      INSTRUCTIONS      EXIT

                    UTILITIES
                    HOUSEKEEPING
                    MGT REPORTS
```

Navigate with ←→↑↓   <↵> to Select   <Esc> Previous Menu
Recover Files/Pack Text Files/HardWare

FIGURE 4-2: MANAGEMENT MODULE MENU SCREEN

choices permit the user to recover from a broken
chain of related data in the databases; to pack
databases eliminating deleted records and extra
space required by text files, and to select
appropriate print devices.

HOUSE-
KEEPING

4.3.3   **Housekeeping** – This option is available
for use only by a user with a **Manager status**. It
allows the management user to establish or change
task parameters (i.e., scheduled start and finish
dates and criticality); to modify user status and
details, and to modify details of the Equipments
that may be analyzed using the software.

MANAGE-
MENT
REPORTS

4.3.4   **Management Reports** – This choice is also
for use only by a user with **Manager status**. It
allows the management user to generate reports on
all or some of the Tasks and Subtasks for
summarization as to status and criticality.

TO ENTER THE MANAGEMENT MODULE

USE MANAGE-
MENT
MODULE

Follow procedures outlined in Chapter 2, to **Log-In**
and **SELECT THE EQUIPMENT** you wish to analyze

On the **Executive Menu Screen**
Use the **LEFT-RIGHT Arrow** to move the highlight bar
to **MANAGEMENT**
Press **<ENTER>**

4.4   MANAGEMENT SUB-MENU

MANAGE-
MENT SUB-
MENU

The **Management Sub-Menu** contains three options
(Figure 4-2):

        Utilities
        Housekeeping
        Management Reports

The three options are dealt with individually in
separate chapters. The preceding material is
reproduced verbatim to facilitate use of the
manual.

4.5   HOUSEKEEPING SUBMODULE

HOUSE-
KEEPING
OPTIONS

4.5.1   The Housekeeping Submodule has been
designed to allow the Program/ILS Manager to set up
the LSA environment. This Submodule is available
only to users who have a **Manager Level Status** in
the system. It incorporates three options:

        Task Parameters
        User Status
        Equipment

TASK
PARAMETERS

4.5.2   **Task Parameters** - This facility within
the Housekeeping Submodule allows the Program
Manager to define a schedule for the performance of
LSA Tasks and Subtasks. It also allows tailoring
of the Analysis to suit the acquisition and life
cycle phase of a particular weapon system.

4.5.3   To achieve this objective the Program Manager is able to insert **Scheduled Start Date** and the **Scheduled Finish Date** for a particular Task or Subtask. The Program Manager may also tag Tasks or Subtasks that are critical for the weapon system and its life cycle phase.

USER STATUS

4.5.4   **User Status** - This facility allows the **Manager Level** user to **ADD**, **CHANGE** OR **DELETE** users from the LSA System.   To use the software, the Analyst ID and Password must exist in the system.

4.5.5   The manager can insert the Analyst ID and Password into the system using this facility. The Analyst ID is a fixed character field. The field width is 4 characters. The Password is also a 5 byte alphanumeric field. The Password is **CASE SENSITIVE**. As such, the user should be careful when entering the password to ensure that the proper case is used.

4.5.6   ALSAT incorporates a function to check that the manager has not inadvertently pressed the wrong key while entering a user's password into the system for the first time. The manager is forced to enter the password twice to ensure avoidance of inadvertent errors. Obviously, the password is not presented to the user on the screen and the user cannot backspace if a wrong key is pressed.

4.5.7   The user details are to be entered at the time of Log-In by the user. A detailed description of the fields is given in Chapter 2 of this manual.

EQUIPMENT
OPTIONS

4.5.8   **Equipment** - This function within the Housekeeping Submodule allows the **Manager Level User** to **ADD**, **CHANGE** or **DELETE** equipment from the LSA software.   The manager is presented with a screen where the equipment details are to be entered.

4.5.9   The various fields on the equipment data screen are shown below, together with field widths and field types:

Field Name	Field Type	Field Width
Equipment Name	C	20

Equipment Identification

Military Nomenclature	C	20
Indenture Level	C	1
Common Name	C	20
National Stock Number	C	20
Manufacturer	C	20

EQUIPMENT DETAILS

Next Higher Assembly

Three Levels	C	20

Milestones

Program	C	20
Development Phase	C	20
Acquisition Management	C	20

Information of Project Manager

First Name	C	10
Last Name	C	15
Command	C	15
Office Symbol	C	15
Phone Number	C	20
Autovon Phone Number	C	7

Discrepancy Report To

Name	C	10
Phone	C	7
Command	C	15

TO USE THE HOUSEKEEPING SUBMODULE

HOUSE-KEEPING

Use the **UP-DOWN Arrow** keys to move the highlight bar onto the **HOUSEKEEPING** option ·
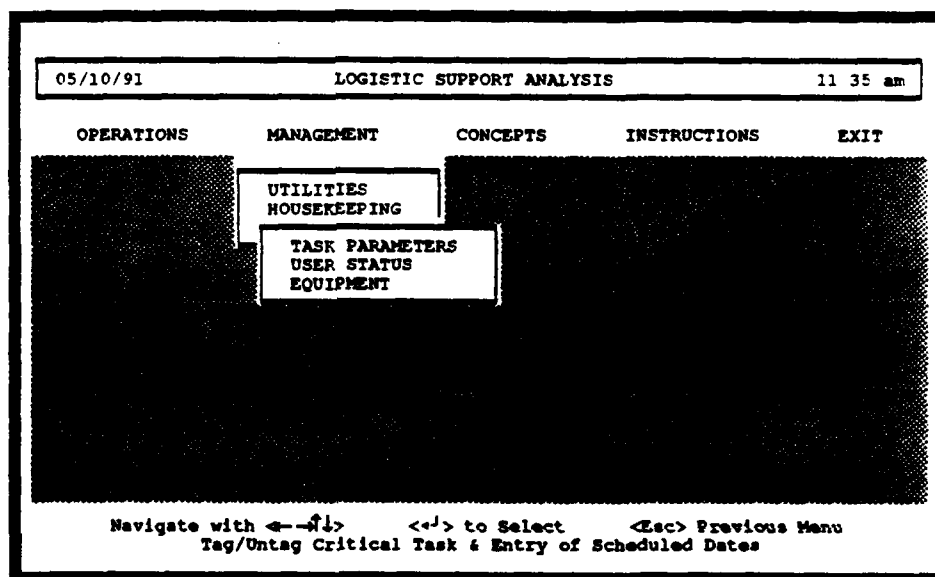Press **<ENTER>**

The Housekeeping submenu is shown in Figure 4-3

| 05/10/91 | LOGISTIC SUPPORT ANALYSIS | 11 35 am |

```
OPERATIONS      MANAGEMENT      CONCEPTS      INSTRUCTIONS      EXIT

                UTILITIES
                HOUSEKEEPING

                    TASK PARAMETERS
                    USER STATUS
                    EQUIPMENT




        Navigate with ←—↑↓>      <↵> to Select      <Esc> Previous Menu
              Tag/Untag Critical Task & Entry of Scheduled Dates
```

FIGURE 4-3: HOUSEKEEPING SUBMODULE MENU SCREEN

TO USE THE TASK PARAMETERS OPTION

Use the **UP-DOWN Arrow** keys to move the highlight bar to **TASK PARAMETERS**
Press **<ENTER>**

A list of Tasks and Subtasks appears on the screen (Figure 4-4)

Use the **UP-DOWN Arrow** keys or the **PG-UP** and **PG-DN** keys to move the highlight bar to the Task or Subtask for which the Task Parameters have to be Added or Edited.

TAG/UNTAG
CRITICAL
TASKS

To **TAG** or **UNTAG** a **CRITICAL** Task or Subtask
Press **<SHIFT + F7>**

```
 05/10/91              HOUSEKEEPING - TASK PARAMETERS                11 44 am

                        EQUIPMENT: 81 MM MORTAR

                                                           SCHEDULED DATES
       TASK NO.                 TASK NAME                  START    FINISH
   ▶   101         DEVELOPMENT OF EARLY LSA STRATEGY       12/20/90 03/20/91
       301.2.1/2   NEW EQUIPMENT FUNCTIONAL REQUIREMENTS     / /      / /
   ▶   301.2.3     IDENTIFICATION OF FUNCTIONAL REQUIREMENT 01/14/91 02/28/91
       301.2.4.1   FAILURE MODES,EFFECTS AND CRITICALITY AN  / /      / /
       301.2.4.2   RELIABILITY CENTERED MAINTENANCE (RCM)    / /      / /
       301.2.4.3   OPERATIONS AND OTHER FUNCTIONAL REQUIREM  / /      / /
       301.2.5     DESIGN ALTERNATIVES                       / /      / /
       302.2.1/2   ALTERNATIVE SUPPORT CONCEPTS             / /      / /
       302.2.3/4   ALTERNATIVE EQUIPMENT SUPPORT PLANS       / /      / /
       302.2.5     RISK ANALYSIS OF SUPPORT SYSTEM ALTERNAT  / /      / /
       303.2.2     SUPPORT SYSTEM ALTERNATIVES TRADE-OFF AN  / /      / /
   More.......

       Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn>     Exit with <Esc>
      [F1] Help      [F5] Change Dates    [SHIFT+F7] Tag/Untag Critical Task/Subtask
                            ▶ Indicates Critical Task/Subtask
```

FIGURE 4-4: LSA TASK/SUBTASK ATTRIBUTE SCREEN

	To change or enter the **SCHEDULED START DATE** and the **SCHEDULED FINISH DATE**
SCHEDULED	Press **<F5>**
START AND	
FINISH DATES	The highlight bar moves to the **SCHEDULED START DATE** field

Type in the **<SCHEDULED START DATE>**
Press **<ENTER>**

The highlight bar then moves over to the **SCHEDULED FINISH DATE FIELD**
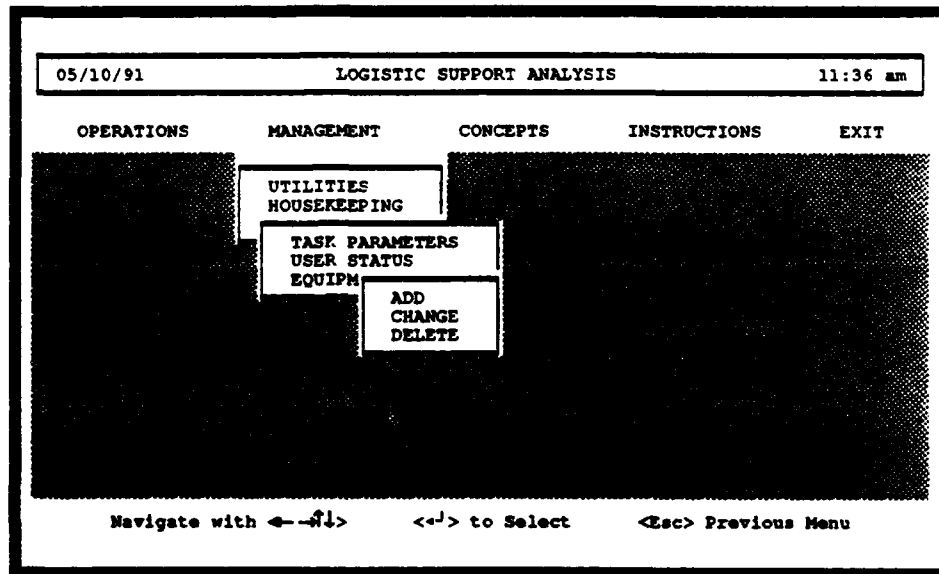Type in the **<SCHEDULED FINISH DATE>**
Press **<ENTER>**

To return back to the **HOUSEKEEPING SUBMENU**
Press **<ESC>**

TO USE THE USER STATUS OPTION

Use the **UP-DOWN Arrow** keys to move the highlight bar to the **USER STATUS** option

The **USER STATUS SUBMENU** appears on the screen (Figure 4-5)

FIGURE 4-5: USER STATUS SUBMENU OPTIONS

TO ADD NEW USER

ADD NEW
USER

Use the **UP-DOWN Arrow** keys to highlight the **ADD** option
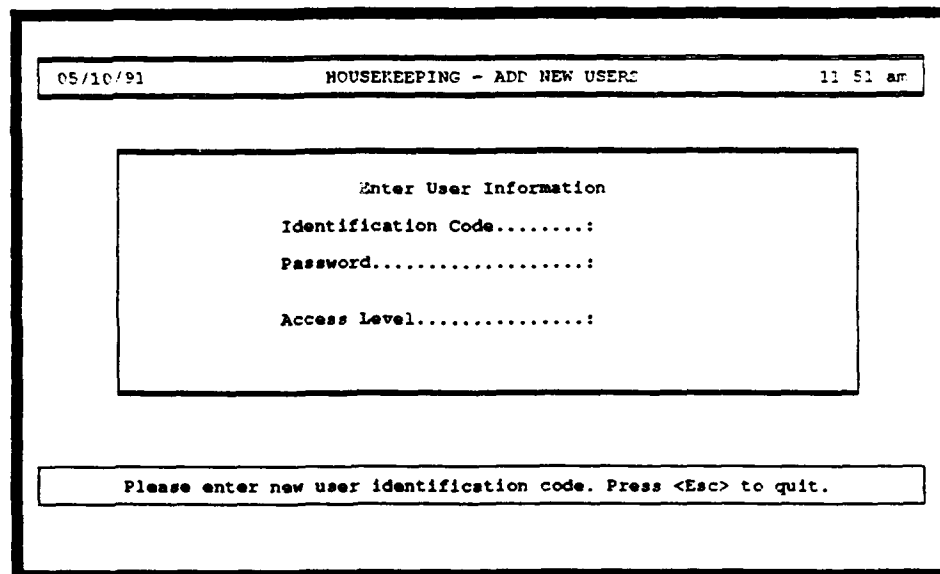Press **<ENTER>**

Figure 4-6 displays the **ADD NEW USER SCREEN**

The screen requires the manager to input data into three fields: The **USER IDENTIFICATION** CODE, **USER PASSWORD** and the **USER ACCESS LEVEL**.

Type in the 4 character **<USER IDENTIFICATION CODE>**
Press **<ENTER>**

Type in the 5 character **<USER PASSWORD>**

```
┌──────────────────────────────────────────────────────────────┐
│  05/10/91              HOUSEKEEPING - ADD NEW USERS     11 51 am │
│                                                                 │
│        ┌──────────────────────────────────────────┐            │
│        │           Enter User Information          │            │
│        │       Identification Code........:        │            │
│        │       Password..................:         │            │
│        │                                           │            │
│        │       Access Level..............:         │            │
│        │                                           │            │
│        │                                           │            │
│        └──────────────────────────────────────────┘            │
│                                                                 │
│   Please enter new user identification code. Press <Esc> to quit. │
│                                                                 │
└──────────────────────────────────────────────────────────────┘
```

FIGURE 4-6: ADD NEW USER

The system prompts you to type in the password a second time to ensure that a wrong key was not inadvertently pressed

INSERT USER PASSWORD

Type in, a second time, the 5 character **<USER PASSWORD>**

The cursor moves over to the **ACCESS LEVEL** field and displays a look up screen containing the two User Access Levels (Figure 4-7)

Use the **UP-DOWN Arrow** keys to move the highlight bar to the appropriate **USER ACCESS LEVEL**
Press **<ENTER>**

To save the data entered, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If any of the data was erroneously entered and you wish to change it, or you do not wish to save the data entered
Press **<N>**

```
┌─────────────────────────────────────────────────────────┐
│  05/10/91         HOUSEKEEPING - ADD NEW USERS    1:57 pm │
│ ┌───────────────────────────────────────────────────────┐│
│ │                                                         ││
│ │         ┌───────────────────────────────────────┐      ││
│ │         │         Enter User Information         │      ││
│ │         │                                        │      ││
│ │         │   Identification Code........: USER     │      ││
│ │         │                                        │      ││
│ │         │   Password..................: *****     │      ││
│ │         │                              *****     │      ││
│ │         │   Access Level..............:          │      ││
│ │         │                          ┌──────────┐  │      ││
│ │         │                          │ MANAGER  │  │      ││
│ │         └──────────────────────────│ USER     │──┘      ││
│ │                                    └──────────┘         ││
│ └───────────────────────────────────────────────────────┘│
│ ┌───────────────────────────────────────────────────────┐│
│ │                Select user access level.                ││
│ └───────────────────────────────────────────────────────┘│
└─────────────────────────────────────────────────────────┘
```

FIGURE 4-7: USER ACCESS LEVELS

Press <ENTER>

To enter details of other users, respond to the
system prompt
Press <Y>
Press <ENTER>

If no more users are to be entered into the system,
respond to the system prompt
Press <N>
Press <ENTER>

TO CHANGE USER STATUS

Refer to the USER STATUS SUBMENU which is shown in
Figure 4-5

Use the UP-DOWN Arrow keys to highlight the CHANGE
option
Press <ENTER>

Figure 4-8 displays the MODIFY USER STATUS SCREEN

```
 05/10/91        HOUSEKEEPING - CHANGE USER INFORMATION        11:54 am

                        Enter User Information

                    Identification Code........:

                    Password...................:        Analyst ID List
                                                              JACK
                                                              USER
                    Access Level...............:


                                                          End of list

              Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn>
           <↵> To select          <Esc> To exit without selecting
                      SELECT USER IDENTIFICATION CODE
```

FIGURE 4-8: MODIFY USER STATUS

MODIFY USER
STATUS

A look-up window appears containing a list of all users in the system

Use the **UP-DOWN Arrow** keys to highlight the Analyst ID of the user whose status is to be changed
Press **<ENTER>**

The system prompts the manager to change the password

If the **User Password** is not to be changed, respond to the prompt
Press **<N>**
Press **<ENTER>**

To change **USER PASSWORD**, respond to the prompt
Press **<Y>**
Press **<ENTER>**

Two blank fields appear on the screen against the password

Type in the 5 character *<USER PASSWORD>*

The system prompts you to type in the password a second time to ensure that a wrong key was not inadvertently pressed

Type in, a second time, the 5 character *<USER PASSWORD>*

The cursor moves over to the **ACCESS LEVEL** field and displays a look up screen containing the two User Access Levels (Figure 4-7)

Use the **UP-DOWN Arrow** keys to move the highlight bar to the appropriate **USER ACCESS LEVEL**
Press *<ENTER>*

To save the data entered, respond to the system prompt
Press *<Y>*
Press *<ENTER>*

If any of the data was erroneously entered and you wish to change it, or you do not wish to save the data entered
Press *<N>*
Press *<ENTER>*

To change status of other users, respond to the system prompt
Press *<Y>*
Press *<ENTER>*

If no more changes are to be made to users' status, respond to the system prompt
Press *<N>*
Press *<ENTER>*

TO DELETE USERS FROM THE SYSTEM

Refer to the **USER STATUS SUBMENU** which is shown in **Figure 4-5**

Use the **UP-DOWN Arrow** keys to highlight the **DELETE**
option
Press **<ENTER>**

Figure 4-9 displays the **DELETE USER FROM SYSTEM**
SCREEN

```
┌──────────────────────────────────────────────────────────┐
│ ┌────────────────────────────────────────────────────┐   │
│ │ 05/10/91        HOUSEKEEPING - DELETE EXISTING USER        11:56 am │ │
│ └────────────────────────────────────────────────────┘   │
│   ┌────────────────────────────────────────────────────┐ │
│   │                  ┌──────────────┐                  │ │
│   │                  │Analyst ID List│                  │ │
│   │                  │     JACK     │                  │ │
│   │                  │     USER     │                  │ │
│   │                  │              │                  │ │
│   │                  │              │                  │ │
│   │                  │  End of list │                  │ │
│   └──────────────────┴──────────────┴──────────────────┘ │
│           Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn> │
│        <↵> To select          <Esc> To exit without selecting │
│                  SELECT USER IDENTIFICATION CODE           │
└──────────────────────────────────────────────────────────┘
```

FIGURE 4-9: DELETE USER FROM SYSTEM

A look-up window appears containing a list of all
users in the system

DELETE USER   Use the **UP-DOWN Arrow** keys to highlight the Analyst
ID of the user whose Identification Code is to be
deleted from the system
Press **<ENTER>**

The system prompts the manager to confirm that the
user is to be deleted from the system

To confirm that the user is to be deleted
Press **<Y>**

Press <ENTER>

If the user is not to be deleted from the system
Press <N>
Press <ENTER>

To delete other users from the system, respond to
the system prompt
Press <Y>
Press <ENTER>

If no more users are to be deleted from the system,
respond to the system prompt
Press <N>
Press <ENTER>
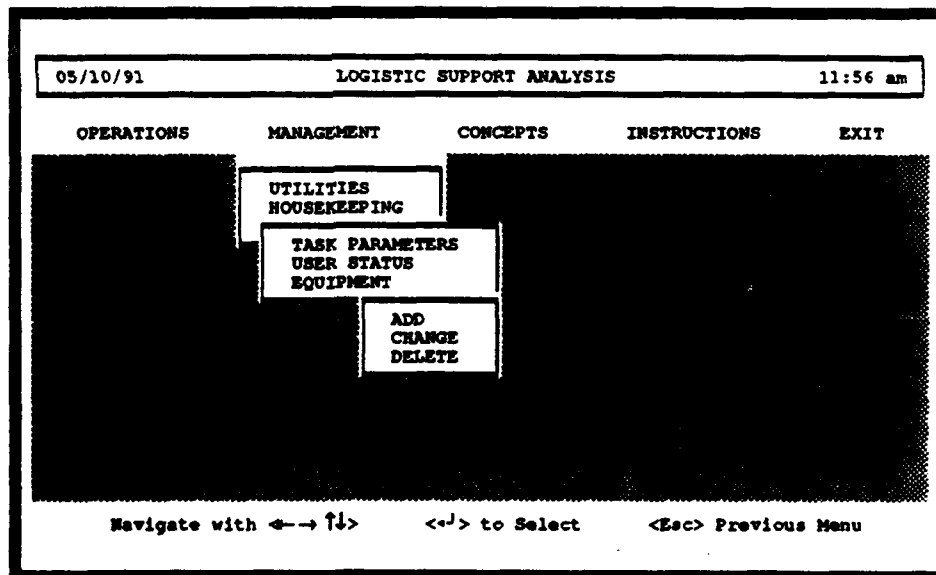
FIGURE 4-10: EQUIPMENT SUBMENU OPTIONS

TO USE EQUIPMENT OPTION

Use the **UP-DOWN Arrow** keys to move the highlight
bar to the **EQUIPMENT** option

The **EQUIPMENT SUBMENU** appears on the screen (Figure 4-10)

TO ADD NEW EQUIPMENT

Use the **UP-DOWN Arrow** keys to highlight the **ADD** option

ADD NEW
EQUIPMENT

Press **<ENTER>**

Figure 4-11 displays the **ADD NEW EQUIPMENT SCREEN**

```
┌─────────────────────────────────────────────────────────────┐
│ 05/10/91        HOUSEKEEPING - ADD NEW EQUIPMENT      11:57 am│
├─────────────────────────────────────────────────────────────┤
│                                                               │
│      ┌────────────────────────────────────────────┐          │
│      │                                             │          │
│      │        Enter Equipment ID:                  │          │
│      │                                             │          │
│      └────────────────────────────────────────────┘          │
│                                                               │
│      ┌────────────────────────────────────────────┐          │
│      │  Please enter new equipment identification code. │     │
│      │            Press <Esc> to exit              │          │
│      └────────────────────────────────────────────┘          │
└─────────────────────────────────────────────────────────────┘
```

FIGURE 4-11: ADD NEW EQUIPMENT

The cursor appears in the **EQUIPMENT** ID field
Type in **<EQUIPMENT IDENTIFICATION>**
Press **<ENTER>**

The **EQUIPMENT IDENTIFICATION** field cannot be left blank

The **EQUIPMENT DETAILS SCREEN** is presented to the manager (Figure 4-12)

```
05/10/91        HOUSEKEEPING - CHANGE EQUIPMENT INFORMATION        11 58 am

                      EQUIPMENT IDENTIFICATION: COMVAT
  Military Nomenclature: N/A                           Indenture Level: 1
                     Common Name: COMVAT
National Stock Number: N/A                  Manufacturer:HONEYWELL

                          NEXT HIGHER ASSEMBLY
    FIFV

                             MILESTONE
    Program                Development Phase         Acquisition Management
    FIX MOUNT DEMO TEST    6.2 EXPLORATORY           STREAMLINED

                     INFORMATION OF PROJECT MANAGER
  First Name: GARY                    Last Name: MOSHIER
    Command: AMCCOM                Office Symbol: SMCAR-CCS-C
  Phone Nbr.: 1(201) 724-6944    Autovon Phone Nbr.: 880-6994
                           DISCREPANCY REPORT TO
  Name:STEVE TURKE          Phone #:1(309) 782-7830   Command:AMCCOM


              F1-Help           F10-Save            Esc-Abort
```

FIGURE 4-12: ADD/MODIFY EQUIPMENT DETAILS

The cursor appears in the **MILITARY NOMENCLATURE** field

A detailed description of all the fields appears earlier on in this chapter. The manager should complete all the data input fields although it is not mandatory that all fields be completed.

To move the cursor from one field to another use the **UP-DOWN** Arrow keys or
Press **<ENTER>**

Once the user goes through all the fields the system prompts the user to save the data entered

To **SAVE** data
Type **<Y>**

Press <ENTER>

To enter more new Equipment, respond to the system
prompt
Press <Y>
Press <ENTER>

If no more Equipment are required to be added to
the system, respond to the system prompt
Press <N>
Press <ENTER>

TO CHANGE EQUIPMENT DETAILS

Refer to the **EQUIPMENT SUBMENU** which is shown in
Figure 4-9
Use the **UP-DOWN Arrow** keys to highlight the **CHANGE**
option
Press <ENTER>

A look-up window appears containing the **EQUIPMENT
IDENTIFICATION LIST** (Figure 4-13)
Use the **UP-DOWN Arrow** keys to highlight the
Equipment ID whose details are to be changed
Press <ENTER>

*MODIFY
EQUIPMENT
DETAILS*

The **EQUIPMENT DETAILS SCREEN** is presented to the
manager (Figure 4-12)

The cursor appears in the **MILITARY NOMENCLATURE**
field

A detailed description of all the fields appears
earlier on in this chapter. The manager may or may
not input data into all the fields on this screen
since it is not mandatory to complete all the
fields.

To move the cursor from one field to another, use
the **UP-DOWN Arrow** keys or
Press <ENTER>

Once the user goes through all the fields, the
system prompts the user to save the data entered

```
 05/10/91          HOUSEKEEPING - CHANGE EQUIPMENT INFORMATION       11 57 am


                            EQUIPMENT ID

                        81 MM MORTAR
                        COMVAT
                        M1A1
                        TANK




                        End of list


  Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn>   Select with <↵>

                          SELECT EQUIPMENT
```

FIGURE 4-13: EQUIPMENT IDENTIFICATION LIST

To **SAVE** data
Type **<Y>**
Press **<ENTER>**

To modify details of other Equipment, respond to
the system prompt
Press **<Y>**
Press **<ENTER>**

If no more Equipment details are required to be
changed, respond to the system prompt
Press **<N>**
Press **<ENTER>**

TO DELETE EQUIPMENT FROM THE SYSTEM

Refer to the **EQUIPMENT SUBMENU** which is shown in
Figure 4-10

Use the **UP-DOWN Arrow** keys to highlight the **DELETE**
option
Press **<ENTER>**

A look-up window appears containing the **EQUIPMENT IDENTIFICATION LIST** (Figure 4-13)

DELETE   Use the **UP-DOWN Arrow** keys to highlight the
EQUIPMENT   Equipment Identification to be deleted from the
FROM SYSTEM   system
                  Press **<ENTER>**

The system prompts the manager to confirm that the Equipment is to be deleted from the system

To confirm that the Equipment is to be deleted
Press **<Y>**
Press **<ENTER>**

If the Equipment is not to be deleted from the system
Press **<N>**
Press **<ENTER>**

To delete other Equipment from the system, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If no more Equipments are required to be deleted from the system, respond to the system prompt
Press **<N>**
Press **<ENTER>**

CHAPTER 5
MANAGEMENT REPORTS

5.1 INTRODUCTION

5.1.1   The **Management Module** has primarily been developed for use by Program/ILS Managers and other designated supervisors responsible for assuring that Tasks and Subtasks get assigned, performed and completed within specified scheduled dates. All other users, however, will have access only to the Utilities Submodule within the Management Module. This will allow them to recover corrupted files, pack text files and select the output device to be used for hard copy reports.

MANAGE-
MENT
MODULE

5.1.2   The Module itself is designed to be very user friendly. The user is provided with **On-Line Help** and **Look-Up Screens** to facilitate data entry. The use of this manual will lead the Management User through that portion of the LSA software designed to provide reports on Task and Subtask status and ensure data integrity and security of the system.

> **NOTE**
>
> Applicable portions of this Chapter have been reproduced verbatim in Chapter 3 and Chapter 4. This will make the chapters dealing with the Submodules self contained and will facilitate use of this manual.

5.1.3   This volume of the User's Manual has been designed for use with the **Executive Shell** of the

software. It specifically deals with the Installation Procedures and the use of the Management Module. The use of the Management Module is divided into three parts: Chapter 3 describes the use of the Utilities Submodule, Chapter 4 describes the use of the Housekeeping Submodule, and Chapter 5 deals with the use of the Management Reports Submodule.

5.2 EXECUTIVE MENU SCREEN

EXECUTIVE MENU

5.2.1 The analyst logs into the system using the Analyst ID and Password. The user then selects the Equipment on which the analysis is to be performed. A detailed description of the Log-In procedures is provided in Chapter 2.
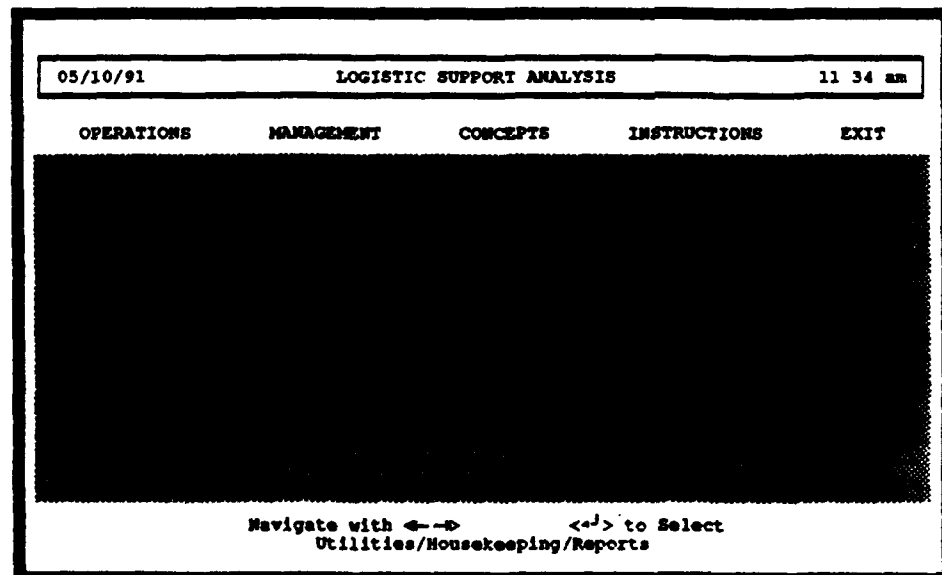
FIGURE 5-1: EXECUTIVE MENU SCREEN

5.2.2 Once the Log-In procedures are successfully completed, the Executive Menu Screen (Figure 5-1) is presented on the screen.

5.2.3   The **Executive Menu** screen allows the user to select one of five options. These are:

OPERATIONS

Operations - The user may select a Task or Subtask and perform the Logistics Support Analysis, or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

MANAGE-MENT

Management - Allows the user to enter the Management Module and make use of the **Utilities, Housekeeping** or **Management Reports** facilities (Refer to Chapters 3 through 5 of this for a detailed discussion).

CONCEPT

Concept - The user is able to view a text screen which describes the concept behind the development of the **Automated Logistic Software Analysis Tool (ALSAT)**.

INSTRUCTION

Instructions - The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit - The user may exit the software by selecting this option.

5.3   MANAGEMENT MODULE

MANAGE-MENT MODULE OPTIONS

5.3.1   The **Management Module** comprises three facilities to assist in managing and controlling the LSA program (Figure 5-2). The three management facilities available to the users are:

Utilities
Housekeeping
Management Reports

UTILITIES

5.3.2   **Utilities** - This option is available for use by all classes of users and refers to the utilities provided to allow users to **Re-index, Pack Text Files** and **Select Output Device**. The three choices permit the user to recover from a broken chain of related data in the databases; to pack
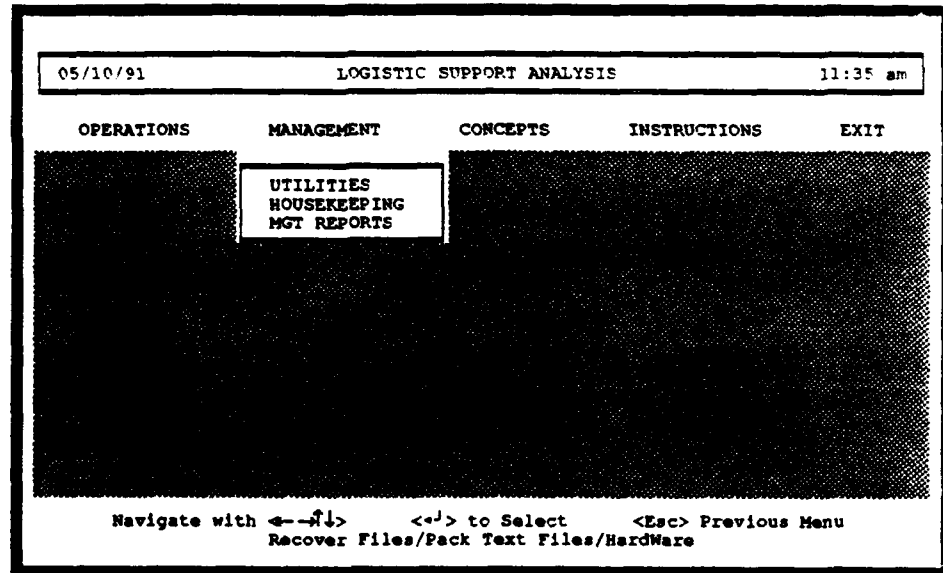
FIGURE 5-2: MANAGEMENT MODULE MENU SCREEN

databases eliminating deleted records and extra
space required by text files, and to select
appropriate print devices.

HOUSE-
KEEPING

5.3.3   **Housekeeping** - This option is available
for use only by a user with a **Manager** status. It
allows the management user to establish or change
task parameters (i.e., scheduled start and finish
dates and criticality); to modify user status and
details, and to modify details of the Equipments
that may be analyzed using the software.

MANAGE-
MENT
REPORTS

5.3.4   **Management Reports** - This choice is also
for use only by a user with **Manager** status. It
allows the management user to generate reports on
all or some of the Tasks and Subtasks for
summarization as to status and criticality.

TO ENTER THE MANAGEMENT MODULE

Follow procedures outlined in Chapter 2, to Log-In
and **SELECT THE EQUIPMENT** you wish to analyze

USE MANAGE-
MENT
MODULE

On the **Executive Menu Screen**
Use the **LEFT-RIGHT Arrow** to move the highlight bar
to **MANAGEMENT**
Press **<ENTER>**

5.4   MANAGEMENT SUB-MENU

The **Management Sub-Menu** contains three options
(Figure 5-2):

MANAGE-
MENT SUB-
MENU

     Utilities
     Housekeeping
     Management Reports

The three options are dealt with individually in
separate chapters. The preceding material is
reproduced verbatim to facilitate use of the
manual.

5.5   MANAGEMENT REPORTS SUBMODULE

5.5.1   The Management Reports Submodule within
the Management Module is also for use by an analyst
with **Manager** level status. The Module generates
reports which enable a manager to control and
maintain an up-to-date status of the Tasks and
Subtasks.

5.5.2   The Automated Logistics Support Analysis
Tool generates three reports for use by the Program
Manager. These are:

MANAGE-
MENT REPORT
OPTIONS

     Summary LSA Status Report
     LSA Status Listing Report
     Critical Task/Subtask Status Report

SUMMARY LSA
STATUS
REPORT

5.5.3   **Summary LSA Status Report** - This report
provides the Summary Status Reports of all selected
Tasks and Subtasks. The module incorporates a
function which allows the manager to specify the
Tasks and Subtasks for which the report is to be
generated.

5.5.4   The report is sub-divided into three sections. The first section contains the report data: The report title, page number, report date and the equipment being analyzed.   Section 2 contains the number and name of the Task or Subtask, the name and office of the analyst who last input data into the database, the "**As Of**" date for the report, the Action Office and the Action Date.   Section 3 contains the report rating (**RED**, **AMBER** or **GREEN**) and the report details.

5.5.5   At the end of the report, a Summary sheet records the total number of records requested and generated. The report lists the Tasks or Subtasks whose reports were requested but have no data in them. It also indicates the total number of Tasks and Subtasks in each class of Criticality Rating.

LSA STATUS LISTING REPORT

5.5.6   **LSA Status Listing Report** – This report contains the report details: Report name, Report Date and Page Number in Section 1 of the report. Section 2 of the report lists the Analyst's Name and Office, Equipment Identification, Equipment Common Name and National Stock Number.   Section 3 of the report lists all Tasks and Subtasks, together with their Scheduled Start and Scheduled Finish dates, and records whether these Tasks and Subtasks have been completed.

5.5.7   The report logic compares the Report Date and Scheduled Finish Date for each Task and Subtask.   If the Report Date is later than the Scheduled Finish Date, and the Task or Subtask is not marked as finished, it is shown as being behind schedule. The report Summary sheet lists all Tasks and Subtasks behind schedule.

CRITICAL TASK/ SUBTASK STATUS REPORT

5.5.8   **Critical Task/Subtask Status** – This report is similar to the LSA Status Listing Report. It contains the report details: Report name, Page Number and Report Date in Section 1 of the report. Section 2 of the report lists the Analyst's Name and Office, Equipment Identification, Equipment Common Name and National Stock Number.   Section 3 of the report lists all Tasks and Subtask marked **Critical**, together with their Scheduled Start and

Scheduled Finish dates, and records whether these Tasks and Subtasks have been completed.

5.5.9   The report also contains a Summary sheet which lists all Critical Tasks and Subtasks behind schedule.

TO USE THE MANAGEMENT REPORTS SUBMODULE

Use the **UP-DOWN Arrow** keys to move the highlight bar onto the **MANAGEMENT REPORTS** option

GENERATE
REPORTS

Press **<ENTER>**

The **MANAGEMENT REPORTS** menu appears on the screen On the Reports Menu

Use the **UP-DOWN** arrow keys to move the highlight bar to the desired report (Figure 5-3)
Press **<ENTER>**

```
 05/10/91              MANAGEMENT REPORTS              3 28 pm

                    EQUIPMENT TYPE: 81 MM MORTAR
                        SELECT REPORT TITLE


                        MANAGEMENT REPORTS

                    A. SUMMARY LSA STATUS
                    B. LSA STATUS LISTING
                    C. CRITICAL TASK/SUBTASK STATUS

                    End of list



    Navigate with <↑↓>       Select with <↵>       Exit with <Es--
                   Select the Report to Generate
```

FIGURE 5-3: MANAGEMENT REPORTS MENU

If the **Summary LSA Status Report** is selected, a listing of all the Tasks and Subtasks appears on the screen (Figure 5-4)

To select the Tasks and Subtasks to be included in the report

REPORT
SELECTION

Use the **UP-DOWN Arrow** keys to move the highlight bar to the desired Task or Subtask and
Press **<ENTER>**

A (√) appears beside the Task or Subtask to indicate that it is selected

Repeat the above step for each Task or Subtask to be included in the report

To un-select any Task and Subtask previously tagged, highlight the Task or Subtask and Press **<ENTER>**

```
05/10/91                 MANAGEMENT REPORTS                3 29 pm

                    EQUIPMENT TYPE: 81 MM MORTAR
                         SELECT REPORT TITLE


                         MANAGEMENT REPORTS
                    ═══════[ LSA TASK/SUBTASK ]═══════
   √ 101         DEVELOPMENT OF EARLY LSA STRATEGY
     301.2.1/2   NEW EQUIPMENT FUNCTIONAL REQUIREMENTS
   √ 301.2.3     IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS
     301.2.4.1   FAILURE MODES,EFFECTS AND CRITICALITY ANALYSIS (FMECA)
     301.2.4.2   RELIABILITY CENTERED MAINTENANCE (RCM)
     301.2.4.3   OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS
   √ 301.2.5     DESIGN ALTERNATIVES
     302.2.1/2   ALTERNATIVE SUPPORT CONCEPTS
     302.2.3/4   ALTERNATIVE EQUIPMENT SUPPORT PLANS
   More.......

     Navigate with <↑↓, Home, End, PgUp, PgDn>    Finish with <F10>
   Select/Unselect Item with <↵>    Select/Unselect all with <SHIFT+F10>
              Select LSA Task/Subtask to include in the report
```

FIGURE 5-4: LSA TASK/SUBTASK LISTING

To select or un-select all the Tasks and Subtasks
in one attempt
Press *<SHIFT + F10>*

To indicate that you have finished tagging all
required Tasks and Subtasks
Press *<F10>*

The program then commences to generate the report.
A flashing message appears at the bottom of the
screen saying **"Generating Report......."**.

From the report destination control box, make the
appropriate selection (Figure 5-5)

```
┌─────────────────────────────────────────────────────┐
│ 05/10/91              MANAGEMENT REPORTS      3 29 pm │
├─────────────────────────────────────────────────────┤
│              EQUIPMENT TYPE: 81 MM MORTAR             │
│                 SELECT REPORT TITLE                   │
│                                                       │
│       ┌───────────────────────────────────────┐      │
│     ┌─┴─────────────────────────────────────────┴─┐  │
│     │              SUMMARY LSA STATUS              │  │
│     │   ┌────────┐ ┌─────────┐ ┌──────┐ ┌──────┐   │  │
│     │   │ SCREEN │ │ PRINTER │ │ DISK │ │ EXIT │   │  │
│     │   └────────┘ └─────────┘ └──────┘ └──────┘   │  │
│     │                                              │  │
│     │     Navigate with ←→ ↔    Select with <↵>    │  │
│     └──────────────────────────────────────────────┘ │
└─────────────────────────────────────────────────────┘
```

FIGURE 5-5: REPORT DESTINATION OPTIONS

VIEW REPORT

To view the report on the screen
Select *<SCREEN>*
Press *<ENTER>*

*PRINT
REPORT*

To print the report
Select *<PRINTER>*

Press <ENTER>

To save report to a disk file

SAVE REPORT
TO DISK
Select <DISK>
Press <ENTER>

The program allows the analyst to specify the path and file name under which the report is to be stored (Figure 5-6)


```
05/10/91              MANAGEMENT REPORTS              3:30 pm

                EQUIPMENT TYPE: 81 MM MORTAR
                     SELECT REPORT TITLE



                     SUMMARY LSA STATUS

      [SCREEN]    [PRINTER]    [DISK]    [EXIT]

          Specify Drive:\Path\filename

          Press <Esc> to abort.
```

FIGURE 5-6: SAVE REPORT TO DISK

Specify Path - Drive Name\Directory\Subdirectory\
File Name and Extension, e.g.,
C:\LSA\REPORTS\REP1

EXIT
To return back to the report menu, use the **LEFT-
RIGHT Arrow** keys to highlight the **EXIT** option
Press <ENTER>

APPENDIX A

SYSTEM REQUIREMENTS

SYSTEM REQUIREMENTS

```
PC WITH 640 KB RAM
20MB HARD DISK
ONE 360 KB FLOPPY DRIVE
EGA CARD
MONOCHROME OR COLOR MONITORS

DOS VERSION 3.3

PRINTERS   - EPSON
           - IBM PROPRINTER
           - HP LASER JET
           - TI LASER PRINTER
           - PANASONIC
```

APPENDIX B

LIST OF REFERENCE DOCUMENTS

LIST OF REFERENCE DOCUMENTS

8AMC-P 700-11   LSA/LSAR Review Team Guide

AMC-P 700-22   LSA Primer

AMC-P 700-4   LSA Techniques Guide

AMCCOM R 750-5   Battle Damage Assessment and Repair

AR 700-27   Integrated Logistic Systems

AR 70-1   Systems Acquisition Policy and Procedure

AR 750-1   Materiel Maintenance Concepts and Policies

AR 700-127   Integrated Logistics Support (ILS)

DA PAM 700-55   Instructions for Preparing an ILSP

DI-L-7114   LSA Strategy Report

DOD 5000.39D   Acquisition and Management of Integrated Logistic Support for Systems and Equipment

DOD 5000.2I   Major Systems Acquisition Procedures

MIL-M-63003   Preparation of BDAR TM's

MIL-STD-1388-1A   Logistic Support Analysis

MIL-STD-1388-1A/2A   Logistics Support Analysis

MIL-STD-881   Work Breakdown Structures for Defense Materiel Items

MRSA PAM 700-11   Cost Estimating Methodology for Logistics Support Analysis

APJ 966-201   Structured Analysis/Design LSA Task 101, Early LSA Strategy

APJ 983-1   COMVAT Early Strategy Report LSA Task 101

APJ REPORT 966-600   ALSAT Executive User's Manual

APJ REPORT 966-601   Early LSA Strategy Manual

APJ REPORT 966-604   LSA RISK ID Manual

APJ REPORT 966-621   LSA BDAR Manual

                       Engineering   Drawings   and   Technical
                       Specifications of the Equipment, System and
                       Subsystem from the Program Managers Data
                       File

                       Design Specifications from the Acquiring
                       Activity File

                       Required Operational Characteristics

                       O & O Plan

                       Level of Repair Results

APPENDIX C

LIST OF REFERENCE FILES

LIST OF REFERENCE FILES

LIST OF REFERENCE FILES

EXECUTIVE FILES

LSA.EXE	RCPRNCOD.CTL
LSAOVL.OVL	RCWELCOM.MEM
	RCSCR31.TXT
README	RCSCR41.TXT
RCANLYHS.DBF	RCPRNCTL.DBF
RCANLYHS.NTX	RCPRNLST.NTX
RCANLYST.DBF	RCPRNLST.DBF
RCANLYST.NTX	RCSESSN.DBF
RCCXHLP.DBF	RCSESSN.NTX
RCCXHLP.NTX	RCSTATUS.NTX
RCCXHLP.DBT	RCSTATUS.DBF
RCEQHS.DBF	RMDBFILE.DBF
RCEQHS.NTX	RMDBFILE.NTX
RCEQUIP.NTX	RMTSKTAG.DBF
RCEQUIP.DBF	RMTSKTAG.NTX
RCLSATSK.DBF	RSUMSTAT.DBF
RCLSATSK.NTX	RSUMSTAT.DBT
RCMENU.NTX	RSUMSTAT.NTX
RCMENU.DBF	RSUMSTHS.DBT
RCPRHLP.DBF	RSUMSTHS.NTX
RCPRHLP.DBT	RSUMSTHS.DBF
RCPRHLP.NTX	

LIST OF REFERENCE FILES

LSA Task 101 Files

```
ATT101.DBF
EQUIP101.DBF
EQUIP101.DBT
HELP101.DBF
HELP101.DBT
PT1_101.DBF
PT1_101.DBT
S1NOTE.DBF
S1NOTE.DBT
TASKS101.DBF
```

LIST OF REFERENCE FILES

LSA Subtask 301.2.3 Files

```
HELPFILE.DBT
HELPFILE.DBF
HELPFILE.NTX
W_RSKSUB.DBF
W_RSKSUB.NTX
W_SUBTSK.NTX
W_SUBTSK.DBF
W2NOTE.DBT
W2NOTE.DBF
WFRLIST.DBF
WRSKFR.NTX
WRSKXREF.NTX
WRSKXREF.DBF
WRSKXUN.NTX
```

LIST OF REFERENCE FILES

LSA Subtask 303.2.11 Files

```
R111A     DBF
R111A     NTX
R111B     DBF
R111B     NTX
R112      NTX
R112      DBF
R112      DBT
R1CXHLP   NTX
R1CXHLP   DBT
R1CXHLP   DBF
R1NOTE    DBT
R1NOTE    DBF
R1PRHLP   NTX
R1PRHLP   DBF
R1PRHLP   DBT

R212LST1  DBF
R212LST1  NTX
```

APPENDIX D

SAMPLE OUTPUT REPORT FORMATS

SAMPLE OUTPUT REPORT FORMATS

Page No. 1   Report Date: 05/23/91

SUMMARY LSA STATUS

EQUIPMENT: COMVAT

LSA 303.2.11
BATTLE DAMAGE ASSESSMENT AND REPAIR

Analyst: George Chernowitz   As of Date: 05/23/91
 Office: APJ

Action Office: APJ-RIDGEFIELD   Action Date: 04/15/91

RATING: GREEN

Battle Damage Assessment and Repair on the COMVAT has been
completed. Reports have been distributed to the respective
agencies.

Page No. 2   Report Date: 05/23/91

SUMMARY LSA STATUS

EQUIPMENT: COMVAT

Total Task Summaries Requested: 3

Records Generated: 1

     Task Ratings: RED   - 0
                  AMBER - 0
                  GREEN - 1

Records With No Data: 2
                   301.2.4.2
                   402.2.3

*************************** End of Report ***************************

Page No. 1   Report Date: 05/23/91

LSA STATUS LISTING

Analyst: George Chernowitz	Equipment: COMVAT
Office: APJ	Common Name: COMVAT
	NSN: N/A

TASK NO.	TASK NAME	SCHEDULED DATES START	FINISH	TASK FINISHED
101	DEVELOPMENT OF EARLY LSA STRATEGY			YES
301	FUNCTIONAL REQUIREMENTS IDENTIFICATION			---
301.2.1/2	NEW EQUIPMENT FUNCTIONAL REQUIREMENTS			---
301.2.3	IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS			YES
301.2.4.1	FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA)			---
301.2.4.2	RELIABILITY CENTERED MAINTENANCE (RCM)			---
301.2.4.3	OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS			---
301.2.5	DESIGN ALTERNATIVES			---
302	SUPPORT SYSTEM ALTERNATIVES			---
302.2.1/2	ALTERNATIVE SUPPORT CONCEPTS			---
302.2.3/4	ALTERNATIVE EQUIPMENT SUPPORT PLANS			---
302.2.5	RISK ANALYSIS OF SUPPORT SYSTEM ALTERNATIVES			---

LSA STATUS LISTING

EQUIPMENT: COMVAT

TASK NO.	TASK NAME	SCHEDULED DATES		TASK
		START	FINISH	FINISHED
303	EVALUATION OF ALTERNATIVES AND TRADE OFF ANALYSIS			---
303.2.2	SUPPORT SYSTEM ALTERNATIVES TRADE-OFF ANALYSIS			---
303.2.3	DESIGN, OPERATIONS AND SUPPORT CONCEPTS T. O. ANALYSIS			---
303.2.4	SENSITIVITY ANALYSIS			---
303.2.5	MANPOWER AND PERSONNEL IMPLICATIONS OF ALTERNATIVE SYS			---
303.2.6	TRAINING ALTERNATIVES TRADE-OFF ANALYSIS			---
303.2.7	REPAIR LEVEL ANALYSIS			---
303.2.8	TESTING CONCEPTS			---
303.2.9	SUPPORTABILITY, COST AND READINESS PARAMETER EVALUATION			---
303.2.10	ENERGY ALTERNATIVES TRADE-OFF ANALYSIS			---
303.2.11	BATTLE DAMAGE ASSESSMENT AND REPAIR			YES
303.2.12	TRANSPORTABILITY ALTERNATIVES TRADE-OFF ANALYSIS			---
402	EARLY FIELDING ANALYSIS			---
402.2.1	IMPACT OF NEW SYSTEM ON EXISTING SYSTEM			---

Page No. 3   Report Date: 05/23/91

LSA STATUS LISTING

EQUIPMENT: COMBAT

TASK NO.	TASK NAME	SCHEDULED DATES START	FINISH	TASK FINISHED
402.2.2	SOURCES OF MANPOWER AND PERSONNEL RESOURCES			---
402.2.3	IMPACT OF RESOURCE SHORTFALLS ON SYSTEM READINESS			---
402.2.4	COMBAT RESOURCE REQUIREMENTS ANALYSIS			NO
402.2.5	PLANS FOR PROBLEM RESOLUTION			---

Page No. 4   Report Date: 05/23/91

LSA STATUS LISTING

EQUIPMENT: COMVAT

SUMMARY

Task/Subtask Behind Schedule:

Total: 0

************************ End of Report *************************

Page No. 1   Report Date: 05/23/91

CRITICAL TASK/SUBTASK STATUS

Analyst: George Chernowitz	Equipment: COMVAT
Office: APJ	Common Name: COMVAT
	NSN: N/A

TASK NO.	TASK NAME	SCHEDULED DATES START	FINISH	TASK FINISHED
101	DEVELOPMENT OF EARLY LSA STRATEGY			YES
301.2.3	IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS			YES
303.2.11	BATTLE DAMAGE ASSESSMENT AND REPAIR			YES

CRITICAL TASK/SUBTASK STATUS

EQUIPMENT: COMVAT

SUMMARY

Critical Task/Subtask Behind Schedule:

Total: 0

************************* End of Report **************************

INDEX